Honeywell | Portable Gas Detection

2020

EMEA Honeywell RAE Systems Price Guide

EUR

Pricing effective 1st January 2020

Commercial in Confidence

Honeywell
RAE SYSTEMS

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Pricing Group

All prices are excluding VAT

All parts are assigned to a price group. Please contact your local sales representative for more details.

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Restrictions

Please note there are some restrictions for RAE products due to exclusivity. Receiving an opportunity or enquiry i

• Spain – please contact RAE Spain

• France / Morocco / Tunisia /Algeria – please contact RAE France

• Netherland / Belgium / Luxembourg – please contact RAE Benelux

1. Sensors Table

Sensor	Part Number	ToxiRAE Pro	MicroRAE	QRAE 3 (PGM2500)	QRAE 3 (PGM2560)	MultiRAE Lite	MultiRAE	MultiRAE Pro	MultiRAE Benzene	MiniRAE Lite+	MiniRAE 3000+	UltraRAE 3000+	ppbRAE 3000+	AreaRAE Steel	AreaRAE Plus	AreaRAE Pro	Meshguard SS	EUR	PG
Dummy Sensors																			
Dummy	C03-2028-000					•	•	•	•						•	•		€ 11.00	D2
Dummy	W01-2041-000					•	•	•	•						•	•		€ 11.00	D2
Dummy	046-3013-005			•	•													€ 30.00	D2
Dummy	046-3012-005			•	•													€ 29.00	D2
Dummy (EC)	M03-2025-005		•															€ 28.00	D2
Dummy (LEL)	M03-2026-005		•															€ 28.00	D2
Dummy	008-2009-005													•				€ 34.00	D2
PID Sensors & Lamps																			
PID 10.6eV	C03-0912-003					•												€ 581.00	D2
PID 10.6eV	C03-0912-004	•																€ 581.00	D2
PID 10.6eV	C03-0912-002						•	•										€ 615.00	D2
PID 10.6eV	C03-0912-001						•									•		€ 677.00	D2
PID 9.8eV	C03-0912-010								•						•	•		€ 697.00	D2
PID 10.6eV 1/2"	050-0000-004									•	•	•	•					€ 217.00	D2
PID 9.8eV 1/2"	050-0020-000										•	•	•					€ 276.00	D2
PID 11.7eV 1/2"	050-0001-000										•	•						€ 326.00	D2
PID 10.6eV 1/4"	050-0010-000												•					€ 225.00	D2
PID 1/4"	008-3007-001												•					€ 119.00	D2
PID 10.6eV	C04-0960-001															•		€ 1,130.00	D2
PID 10.6eV	C04-0960-000															•		€ 941.00	D2
PID 10.6eV	050-0301-001															•		€ 200.00	D2
PID 10.6eV	050-0301-000															•		€ 182.00	D2
NDIR Sensors (Combustible)																			
NDIR %LEL (CH4)	C03-0962-000				•	•	•											€ 798.00	D2
NDIR %VOL (CH$_4$)	C03-0963-000				•	•	•											€ 798.00	D2
LEL IR	D01-3011-000																•	€ 805.00	UB
NDIR Sensors (CO2)																			
CO$_2$ NDIR (High Range)	C03-0961-000	•				•	•	•							•	•		€ 751.00	D2
CO2 NDIR	D01-3012-000																•	€ 762.00	UB
CO2 NDIR (High Range)	D01-3013-000																•	€ 762.00	UB
LEL Sensors																			
LEL	C03-0911-000	•				•	•	•	•						•	•		€ 175.00	D2
LEL	014-0215-000			•	•													€ 175.00	D2
LEL	014-0600-000		•															€ 158.00	D2
LEL	008-1171-001													•				€ 228.00	D2
LEL	014-0212-000																•	€ 170.00	D2
Hydrogen Sulfide Sensors																			
H$_2$S	C03-0907-001	•				•	•	•	•						•	•		€ 175.00	D2
H$_2$S	032-0202-003			•	•													€ 175.00	D2
H$_2$S	032-0601-002		•															€ 126.00	D2
H$_2$S (High Range)	C03-0904-000	•				•									•	•		€ 175.00	D2
H$_2$S	032-0102-003																•	€ 136.00	UC
H$_2$S (High Range)	032-0102-100																•	€ 136.00	D2
Hydrogen Sensors																			
H$_2$	C03-0981-000	•				•									•	•		€ 382.00	D2
H$_2$	008-1111-000													•				€ 228.00	D2
Carbon Monoxide Sensors																			
CO	C03-0906-000	•				•	•	•	•						•	•		€ 175.00	D2
CO	032-0200-003			•	•													€ 175.00	D2
CO	032-0600-001		•															€ 126.00	D2
CO (High Range)	C03-0903-000	•				•	•	•	•						•	•		€ 281.00	D2
CO (H$_2$ Compensated)	C03-0979-000	•				•	•	•	•						•	•		€ 326.00	D2
CO	008-1112-000													•				€ 228.00	D2
CO	008-1126-000													•				€ 341.00	D2
CO	032-0100-000																•	€ 136.00	UC
Sulfur dioxide Sensors																			
SO$_2$	C03-0973-100	•				•	•	•	•						•	•		€ 281.00	D2
SO$_2$	032-0204-000			•	•													€ 298.00	D2
SO$_2$	008-1113-000													•				€ 334.00	D2
SO$_2$ (High Range)	045-1113-000																•	€ 290.00	D2
Nitrogen oxide Sensors																			
NO	C03-0974-000	•				•	•	•	•						•	•		€ 326.00	D2
NO	008-1114-000													•				€ 319.00	D2
NO	045-1114-000																•	€ 335.00	D2

1. Sensors Table

Sensor	Part Number	ToxiRAE Pro	MicroRAE	QRAE 3 (PGM2500)	QRAE 3 (PGM2560)	MultiRAE Lite	MultiRAE	MultiRAE Pro	MultiRAE Benzene	MiniRAE Lite+	MiniRAE 3000+	UltraRAE 3000+	ppbRAE 3000+	AreaRAE Steel	AreaRAE Plus	AreaRAE Pro	Meshguard SS	EUR	PG
Nitrogen dioxide Sensors																			
NO_2	C03-0975-000	•				•	•	•	•						•	•		€ 326.00	D2
NO_2	032-0209-000				•													€ 364.00	D2
NO_2	008-1115-000													•				€ 319.00	D2
NO_2	045-1115-000																•	€ 335.00	D2
Chlorine Sensors																			
Cl_2	C03-0978-000	•				•	•	•	•						•	•		€ 281.00	D2
Cl_2	032-0208-000				•													€ 395.00	D2
Cl_2	008-1116-001													•				€ 334.00	D2
Cl_2	045-1116-000																•	€ 290.00	D2
Hydrogen cyanide Sensors																			
HCN	C03-0949-000	•				•	•	•	•						•	•		€ 382.00	D2
HCN	032-0127-000			•	•													€ 284.00	D2
HCN	032-0205-000			•	•													€ 284.00	D2
HCN	032-0616-000		•															€ 294.00	D2
HCN	045-1117-000																•	€ 335.00	D2
Ammonia Sensors																			
NH_3	C03-0950-000	•				•	•	•	•						•	•		€ 392.00	D2
NH_3	032-0207-000			•	•													€ 433.00	D2
NH_3	008-1125-000													•				€ 486.00	D2
NH_3	045-1118-000																•	€ 385.00	D2
Phosphine Sensors																			
PH_3	C03-0976-000	•				•	•	•	•						•	•		€ 382.00	D2
PH_3	032-0206-000			•	•													€ 433.00	D2
PH_3	008-1119-000													•				€ 334.00	D2
PH_3-H	C03-0976-100					•	•	•	•									€ 403.00	D2
PH_3	045-1119-000																•	€ 349.00	D2
Chlorine dioxid Sensors																			
ClO_2	C03-0956-000	•				•	•	•	•						•	•		€ 382.00	D2
Oxygen Sensors																			
O_2	C03-0942-000	•				•	•	•	•									€ 175.00	D2
O_2	022-0902-000			•	•													€ 175.00	D2
O_2	022-0617-000		•															€ 168.00	D2
O_2	008-1161-000													•				€ 196.00	D2
O_2 (Liquid Oxygen)	C03-0908-001	•				•	•	•	•						•	•		€ 281.00	D2
O_2	046-1161-000																•	€ 170.00	D2
Ethylene oxide Sensors																			
EtO-A	C03-0954-000	•				•	•	•	•						•	•		€ 281.00	D2
EtO-A	032-0110-100																•	€ 290.00	D2
EtO-B	C03-0922-100	•				•	•	•	•						•	•		€ 281.00	D2
EtO-B	032-0110-200																•	€ 290.00	D2
EtO-C (High Range)	C03-0923-100	•				•									•	•		€ 382.00	D2
EtO-C	032-0110-300																•	€ 290.00	D2
Formaldehyde Sensors																			
HCHO	C03-0982-000	•				•	•	•	•									€ 692.00	D2
Methyl mercaptan (methanethiol) Sensors																			
CH_3-SH	C03-0980-000	•				•	•	•	•									€ 500.00	D2
Twin Toxic Sensors																			
CO + H_2S	C03-0913-000					•	•	•	•									€ 347.00	D2
Hydrogen Chloride Sensors																			
HCl	C03-0952-000														•	•		€ 652.00	D2
HCl	032-0126-000																•	€ 621.00	D2
Hydrogen Fluoride Sensors																			
HF	C03-0953-000														•	•		€ 652.00	D2
HF	045-1124-000																•	€ 790.00	D2
Gamma Sensors																			
Gamma	C03-0910-000							•										€ 990.00	D2
Gamma	C03-0986-000							•										€ 990.00	D2

2. ToxiRAE Pro Single-Gas Monitors for VOCs, O2, Toxic, CO_2 and Combustible Gases

The ToxiRAE Pro is the industry's first and largest family of wireless[1] personal single-gas instruments that reliably and accurately monitor a full range of common toxic industrial gases, volatile organic compounds, carbon dioxide and combustible gases. ToxiRAE Pro is a unified wireless single-gas monitoring platform that customers standardize on to reduce costs and increase efficiencies pertaining to worker safety.

ToxiRAE Pro instruments boast intelligent interchangeable[2] sensors, continuous data logging functionality[3], Man Down alarm and policy enforcement functionalities, the largest backlit display in their class, and an unmistakable five-way alarm notification system that immediately alerts both the user and a remote observer of a hazardous condition by activating the buzzer, vibration alarm, display, and LED lights on the instrument and by sending a remote alarm over the RAE Systems Dedicated Wireless Network[4].

ToxiRAE Pro monitors require minimal user training due to their intuitive user interface that puts all critical readouts at the user's fingertips. ToxiRAE Pro monitors are designed for simple and efficient maintenance and calibration. Their plug-and-play sensor and battery can be replaced in the field while the new AutoRAE 2 Automated Test and Calibration Station makes bump testing and calibration as easy as a press of a button.

ToxiRAE Pro monitors are rugged, intrinsically safe instruments engineered by RAE Systems to last, safeguarding workers day after day, month after month, and year after year The wireless ToxiRAE Pro monitors interface with both the the ProRAE Guardian System and the EchoView-Host-based Closed-Loop Wireless System.

The ProRAE Guardian Real-time Wireless Safety System allows incident commanders, plant managers and first responders to set up a rapidly deployable, secure wireless threat detection system that facilitates faster, data-driven decision-making that helps responders save lives and assets. RAE Systems' EchoView Host-based Closed-Loop Wireless System provides safety- enhancing wireless monitoring in applications such as fireground and hazmat response, confined space entry, multi-gas leak detection, environmental remediation and refinery turnarounds

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[1] Wireless functionality is an optional feature. Instruments can be ordered with or without an integrated wireless modem. Instruments ordered as non-wireless cannot be upgraded to wireless at a later time

[2] RAE Systems recommends calibrating sensors on installation

[3] Available on all ToxiRAE Pro instruments except Safety Configurations of ToxiRAE Pro PID

[4] Additional equipment and / or software licenses may be required to enable remote wireless monitoring and alarm transmission

2.1 ToxiRAE Pro PID Personal Monitors for Volatile Organic Compounds (PGM-1800)

The ToxiRAE Pro PID is the world's smallest wireless photoionization detector. Featuring RAE Systems' next-generation PID sensor, the ToxiRAE Pro PID can promptly detect and accurately monitor over 300 VOCs. With an onboard library of 190 correction factors, the ToxiRAE Pro PID can be programmed to automatically read in concentrations of the specified compound. The ToxiRAE Pro PID is offered in Industrial Hygiene (advanced) and Safety (basic) configurations.

ToxiRAE Pro PID comes with:
- ToxiRAE Pro PID monitor with sensor and wireless option as specified, rechargeable battery, alligator clip, and protective rubber boot installed
- Charging and PC communication cradle (G02-3008-000)
- PC communication cable (410-0203-000)
- AC adapter (100 to 240 V, 50/60 Hz AC to 12 V DC) (500-0036-100)
- Calibration Cap ToxiRAE Pro PID (G02-2027-000)
- Opening Tool (G02-2025-000)
- Quick Start Guide
- CD with documentation
- CD with ProRAE Studio II Instrument Configuration and Data Management Software
- Technical Note TN-106 with ionization energies and correction factors for 300+ VOCs (Industrial Hygiene versions only)
- Calibration and test certificate
- Warranty/registration card

Industrial Hygiene Configurations

Part Number	Description	10.6 eV PID Lamp	Datalogging	Wireless	Rechargeable	Rubber boot	EUR PG
G02-A003-000	ToxiRAE Pro/10.6 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Wireless (868MHz)	●	●	●	●	●	€ 2,289.00 A2
G02-A000-000	ToxiRAE Pro/10.6 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Non-Wireless	●	●		●	●	€ 2,113.00 A2
G02-A023-000	ToxiRAE Pro/9.8 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Wireless (868MHz)		●	●	●	●	€ 2,414.00 A2
G02-A020-000	ToxiRAE Pro/9.8 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Non-Wireless		●		●	●	€ 2,238.00 A2
G02-H00A-000	ToxiRAE Pro/10.6 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Wireless (869MHz)-CU	●	●	●	●	●	€ 2,289.00 A2
G02-H000-000	ToxiRAE Pro/10.6 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Non-Wireless-CU	●	●		●	●	€ 2,113.00 A2
G02-H02A-000	ToxiRAE Pro/9.8 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Wireless (869MHz)-CU		●	●	●	●	€ 2,414.00 A2
G02-H020-000	ToxiRAE Pro/9.8 eV PID (0.1 - 2,000 ppm range, 50 ppb res.)/Datalogging/Non-Wireless-CU		●		●	●	€ 2,238.00 A2

Safety Configurations

Part Number	Description	10.6 eV PID Lamp	Datalogging	Wireless	Rechargeable	Rubber boot	EUR PG
G02-A013-000	ToxiRAE Pro/10.6 eV PID (1 - 1,000 ppm range, 0.1 ppm res.)/No Datalogging/Wireless (868MHz)	●		●	●	●	€ 1,424.00 A2
G02-A010-000	ToxiRAE Pro/10.6 eV PID (1 - 1,000 ppm range, 0.1 ppm res.)/No Datalogging/Non-Wireless	●			●	●	€ 1,248.00 A2
G02-H01A-000	ToxiRAE Pro/10.6 eV PID (1 - 1,000 ppm range, 0.1 ppm res.)/No Datalogging/Wireless (868MHz)-CU	●		●	●	●	€ 1,424.00 A2
G02-H010-000	ToxiRAE Pro/10.6 eV PID (1 - 1,000 ppm range, 0.1 ppm res.)/No Datalogging/Non-Wireless-CU	●			●	●	€ 1,248.00 A2

2. ToxiRAE Pro Single-Gas Monitors for VOCs, O2, Toxic, CO$_2$ and Combustible Gases

2.2 ToxiRAE Pro LEL Personal Monitors for Combustible Gases (PGM-1820)

The ToxiRAE Pro LEL is the world's first wireless personal combustible gas monitor. Boasting the continuous data logging capability that comes standard and 34 built-in correction factors, the ToxiRAE Pro LEL enables measurement of combustible gas in % LEL of the selected compound.

ToxiRAE Pro PID comes with:
- Individual packaging
- ToxiRAE Pro LEL monitor with sensor and wireless option as specified,
- rechargeable battery, alligator clip, and protective rubber boot installed
- Charging and PC communication cradle (G02-3008-000)
- PC communication cable (410-0203-000)
- AC adapter (100 to 240 V, 50/60 Hz AC to 12 V DC) (500-0036-100)
- Calibration adapters (G02-2028-000)
- Quick Start Guide
- CD with documentation
- CD with ProRAE Studio II software
- Calibration and test certificate
- Warranty/registration card

Part Number	Description	% LEL Reading	Datalogging	Wireless	Rechargeable	Rubber boot	EUR	PG
G02-A033-000	ToxiRAE Pro/LEL/Datalogging/Wireless (868 MHz)	•	•	•	•	•	€ 677.00	A2
G02-A030-000	ToxiRAE Pro/LEL/Datalogging/Non-Wireless	•	•		•	•	€ 500.00	A2
G02-H03A-000	ToxiRAE Pro/LEL/Datalogging/Wireless (869MHz)-CU	•	•	•	•	•	€ 677.00	A2
G02-H030-000	ToxiRAE Pro/LEL/Datalogging/Non-Wireless-CU	•	•		•	•	€ 500.00	A2

2.3 ToxiRAE Pro Personal Monitors for Toxic Gases and Oxygen (PGM-1860)

The ToxiRAE Pro is the world's first wireless personal monitor for toxic gases and oxygen deficiency / enrichment. Boasting a selection of over 20 intelligent interchangeable sensors, the ToxiRAE Pro can detect a broad range of gases - from carbon monoxide, hydrogen sulfide, and oxygen to ammonia, chlorine, and phosphene. The ToxiRAE Pro's plug-and-play intelligent sensors store calibration data, so if you need to monitor one gas one day and another gas the next, swapping the sensors in your ToxiRAE Pro is all it takes.

ToxiRAE Pro single-pack comes with:
- Individual packaging
- ToxiRAE Pro monitor with sensor and wireless option as specified, rechargeable battery, alligator clip, and protective rubber boot installed
- Charging and PC communication cradle
- PC communication cable (410-0203-000)
- AC adapter (100 to 240 V, 50/60 Hz AC to 12 V DC) (500-0036-100)
- Calibration adapters (G02-2028-000)
- Quick Start Guide
- CD with documentation
- CD with ProRAE Studio II software
- Calibration and test certificate
- Warranty/registration card

Provided below are the most commonly purchased ToxiRAE Pro instrument configurations.
To custom-configure your ToxiRAE Pro, please use the Assemble-to-Order (ATO) configurator below.

Standard Instrument Configurations

Part Number	Description	Sensor Installed	Datalogging	Wireless	Rechargeable	Rubber Boot	EUR	PG
Wireless							**EUR**	**PG**
G02-AE13-100	ToxiRAE Pro PGM-1860 - O$_2$ / Datalogging / Wireless (868 MHz)	O$_2$	•	•	•	•	€ 556.00	A2
G02-A213-100	ToxiRAE Pro PGM-1860 - CO; up to 500 ppm / Datalogging / Wireless (868 MHz)	CO	•	•	•	•	€ 556.00	A2
G02-A113-100	ToxiRAE Pro PGM-1860 - H$_2$S; up to 100 ppm / Datalogging / Wireless (868 MHz)	H$_2$S	•	•	•	•	€ 556.00	A2
G02-A313-100	ToxiRAE Pro PGM-1860 - SO$_2$ / Datalogging / Wireless (868 MHz)	SO$_2$	•	•	•	•	€ 716.00	A2
Non-Wireless							**EUR**	**PG**
G02-AE10-100	ToxiRAE Pro PGM-1860 - O$_2$ / Datalogging / Non-Wireless	O$_2$	•		•	•	€ 378.00	A2
G02-A210-100	ToxiRAE Pro PGM-1860 - CO; up to 500 ppm / Datalogging / Non-Wireless	CO	•		•	•	€ 378.00	A2
G02-A110-100	ToxiRAE Pro PGM-1860 - H$_2$S; up to 100 ppm / Datalogging / Non-Wireless	H$_2$S	•		•	•	€ 378.00	A2
G02-A310-100	ToxiRAE Pro PGM-1860 - SO$_2$ / Datalogging / Non-Wireless	SO$_2$	•		•	•	€ 538.00	A2

2.4 ToxiRAE Pro Monitor (PGM-1860) ATO Configurator

Select one option from each Feature Group, **A** through **E**, to build a complete model number following this guide:

G02 -	A	B	1	D -	1	0	0
ToxiRAE Pro	ATEX / IECEX Certification	Base Unit / Sensor	Datalogging (Always 1)	Wireless	Kits (Always 1)	Always Zero	Always Zero

A	Certification		
A	ATEX/IECEx (Europe+India)		
H	Custom Union		

	B	Base Unit with Sensor	EUR
	1	H$_2$S — Hydrogen Sulfide (H$_2$S) sensor (0-100 ppm, 0.1 ppm res.)	€ 378.00
	2	CO — Carbon Monoxide (CO) sensor (0-500 ppm, 1 ppm res.)	€ 378.00
	3	SO$_2$ — Sulfur Dioxide (SO$_2$) sensor (0-20 ppm, 0.1 ppm res.)	€ 538.00
	4	NO — Nitric Oxide (NO) sensor (0-250 ppm, 0.5 ppm res.)	€ 586.00
	5	NO$_2$ — Nitrogen Dioxide (NO$_2$) sensor (0-20 ppm, 0.1 ppm res.)	€ 586.00
	6	Cl$_2$ — Chlorine (Cl$_2$) sensor (0-50 ppm, 0.1 ppm res.)	€ 538.00
	7	HCN — Hydrogen Cyanide (HCN) sensor (0-50 ppm, 0.5 ppm res.)	€ 645.00
	8	NH$_3$ — Ammonia (NH$_3$) sensor 0-100 ppm, 1 ppm res.)	€ 645.00
	9	PH$_3$ — Phosphine (PH$_3$) sensor (0-20 ppm, 0.1 ppm res.)	€ 645.00
	A	ClO$_2$ — Chlorine Dioxide (ClO$_2$) sensor (0-1 ppm, 0.03 ppm res.)	€ 645.00
	D	CO, HR — Carbon Monoxide (CO) extended-range sensor (0-2,000 ppm, 10 ppm res.)	€ 538.00
	E	O$_2$ — Oxygen (O$_2$) sensor (0-30% Vol., 0.1% Vol. res.)	€ 378.00
	F	CO comp. H$_2$ — Carbon Monoxide (CO) sensor (H$_2$-compensated) (0-2,000 ppm, 10 ppm res.)	€ 586.00
	H	CH$_3$-SH — Methyl Mercaptan (CH$_3$-SH) sensor (0-10 ppm, 0.1 ppm res.)	€ 741.00
	J	EtO-A — Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.)	€ 645.00
	K	EtO-B — Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.)	€ 645.00
	L	EtO-C, HR — Ethylene Oxide (EtO-C) extended-range sensor (0 - 500 ppm; 10 ppm res.)	€ 645.00
	M	H$_2$ — Hydrogen (H$_2$) sensor (0-1,000 ppm, 10 pm res.)	€ 645.00
	N	H$_2$S, HR — Hydrogen Sulfide (H$_2$S) extended-range sensor (0-1,000 ppm, 1 ppm res.)	€ 378.00
	Q	HCHO — Formaldehyde (HCHO) sensor (0-10 ppm, 0.05 ppm res.)	€ 932.00
	S	Liq. O$_2$ — Liquid Oxygen (O$_2$) sensor	€ 538.00

		C	Datalogging	EUR
		1	Continuous datalogging capability (3-month @ 1-minute intervals; user-configurable)	€ 0.00

			D	Wireless Capability	EUR
			0	Empty — Non-wireless (cannot be upgraded to wireless)	€ 0.00
			3	W-868 — Wireless, 868 MHz (built-in 868 MHz wireless modem)	€ 178.00
			A	W-868 CU — Wireless (Mesh) data transmission, CU (869MHZ), Russia	€ 178.00
			B	W-865.6+866 — Wireless (Mesh) data transmission, ATEX (865.6+866.4MHZ), India	€ 178.00

				E	Kits	EUR
				1	Monitor with standard in-the-box accessories	€ 0.00

G02-	A	B	1	D-	1	0	0

Example:

ToxiRAE Pro PGM-1860 - O₂ / Datalogging / Wireless (868 MHz)

G02-	A	E	1	3-	1	0	0

→ 378 + 0 + 178 + 0 = EUR 556

ToxiRAE Pro PGM-1860 - SO₂ / Datalogging / Non-Wireless

G02-	A	3	1	0-	1	0	0

→ 538 + 0 + 0 + 0 = EUR 538

2. ToxiRAE Pro Single-Gas Monitors for VOCs, O2, Toxic, CO_2 and Combustible Gases

2.5 ToxiRAE Pro CO_2 Safe Area Personal Monitors for Carbon Dioxide (PGM-1850)

The ToxiRAE Pro CO2 is the world's first wireless personal carbon dioxide gas monitor. Boasting the continuous datalogging capability that comes standard the ToxiRAE Pro CO2 enables measurement of carbon dioxide in ppm.

ToxiRAE Pro CO2 is a safe area monitor that comes with:
• ToxiRAE Pro CO_2 monitor with sensor and wireless option as specified,
rechargeable battery, alligator clip, and protective rubber boot installed
• Charging and PC communication cradle
• PC communication cable
• AC adapter (100 to 240 V, 50/60 Hz AC to 12 V DC)
• Calibration adapter
• Quick Start Guide
• CD with documentation
• CD with ProRAE Studio II Instrument Configuration
  and Data Management Software
• Calibration and test certificate
• Warranty/registration card

ToxiRAE Pro CO_2 Monitor (PGM-1850)

Part Number	Description	NDIR CO_2 Sensor	Datalogging	Wireless	Rechargeable	Rubber boot	EUR	PG
G02-0008-000	NDIR Sensor (200 - 50,000ppm, 100ppm res.) / Datalogging / Wireless (868 MHz)	●	●	●	●	●	€ 1,213.00	A2
G02-0007-000	NDIR Sensor (200 - 50,000ppm, 100ppm res.) / Datalogging / Non-Wireless	●	●		●	●	€ 1,037.00	A2

2.6 ToxiRAE Pro Calibration System, Sensors, Accessories, and Replacement Parts

PID (Photoionization Detector) Sensors

Part Number	Description	EUR	PG
C03-0912-000	PID sensor (0.1 - 2,000 ppm; 0.1 ppm res.; 10.6 eV lamp)	€ 558.00	D2
C03-0912-004	PID sensor (1 - 1,000 ppm; 50 ppb res.; 10.6 eV lamp)	€ 581.00	D2
C03-0912-010	PID sensor (0.1 - 2,000 ppm; 50 ppb res.; 9.8 eV lamp)	€ 697.00	D2

Electrochemical Toxic and Oxygen Sensors

Part Number	Description	EUR	PG
C03-0950-000	Ammonia (NH_3) sensor (0-100 ppm; 1 ppm res.)	€ 392.00	D2
C03-0903-000	Carbon Monoxide (CO) extended-range sensor (0-2,000 ppm; 10 ppm res.)	€ 281.00	D2
C03-0906-000	Carbon Monoxide (CO) sensor (0-500 ppm; 1 ppm res.)	€ 175.00	D2
C03-0979-000	Carbon Monoxide (CO) sensor (H_2-compensated) (0-2,000 ppm; 10 ppm res.)	€ 326.00	D2
C03-0978-000	Chlorine (Cl_2) sensor (0-50 ppm; 0.1 ppm res.)	€ 281.00	D2
C03-0956-000	Chlorine Dioxide (ClO_2) sensor (0-1 ppm; 0.03 ppm res.)	€ 382.00	D2
C03-0954-000	Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.)	€ 281.00	D2
C03-0922-100	Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.)	€ 281.00	D2
C03-0923-100	Ethylene Oxide (EtO-C) extended-range sensor (0 - 500 ppm; 10 ppm res.)	€ 382.00	D2
C03-0982-000	Formaldehyde (HCHO) sensor (0-10 ppm; 0.05 ppm res.)	€ 692.00	D2
C03-0981-000	Hydrogen (H_2) sensor (0-1,000 ppm; 10 ppm res.)	€ 382.00	D2
C03-0949-000	Hydrogen Cyanide (HCN) sensor (0-50 ppm; 0.5 ppm res.)	€ 382.00	D2
C03-0904-000	Hydrogen Sulfide (H_2S) extended-range sensor (up to 1,000 ppm reading)	€ 175.00	D2
C03-0907-001	Hydrogen Sulfide (H_2S) sensor (0-100 ppm; 0.1 ppm res.)	€ 175.00	D2
C03-0980-000	Methyl Mercaptan (CH_3-SH) sensor (0-10 ppm; 0.1 ppm res.)	€ 500.00	D2
C03-0974-000	Nitric Oxide (NO) sensor (0-250 ppm; 0.5 ppm res.)	€ 326.00	D2
C03-0975-000	Nitrogen Dioxide (NO_2) sensor (0-20 ppm; 0.1 ppm res.)	€ 326.00	D2
C03-0942-000	Oxygen (O_2) sensor (0-30% vol.; 0.1% vol. res.)	€ 175.00	D2
C03-0908-001	Liquid Oxygen (O_2) sensor	€ 281.00	D2
C03-0976-000	Phosphine (PH_3) sensor (0-20 ppm; 0.1 ppm res.)	€ 382.00	D2
C03-0973-100	Sulfur Dioxide (SO_2) sensor (0-20 ppm; 0.1 ppm res.)	€ 281.00	D2

Combustible Sensors

Part Number	Description	EUR	PG
C03-0911-000	Combustible catalytic bead % LEL sensor	€ 175.00	D2

NDIR - non certified

Part Number	Description	EUR	PG
C03-0961-000	Carbon dioxide (CO_2) NDIR sensor (up to 50,000 ppm)	€ 751.00	D2

2. ToxiRAE Pro Single-Gas Monitors for VOCs, O2, Toxic, CO_2 and Combustible Gases

Power and PC Communication Accessories

Part Number	Description	EUR PG
G02-3008-000	Cradle for charging and PC communications (AC adapter or PC cable NOT included)	€ 93.00 D1
500-0036-100	Universal wall charging adapter, 110 VAC to 240 VAC, 12 VDC (for single-unit charging and PC comm's cradle)	€ 50.00 D1
M02-3025-000	External Charger for Battery (ToxiRAE Pro and QRAE 3)	€ 113.00 D1
410-0203-000	PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black	€ 30.00 D1
G02-3013-001	Multi-unit charger for ToxiRAE Pro (AC adapter included)	€ 425.00 D1
500-0156-000	Power Adapter,AC/DC,90-264V Input,12VDC/3A Output (for on- to-five power cable and Multi charger)	€ 95.00 D1
003-3004-000	Automotive charging adapter 12 VDC	€ 39.00 D1

Calibration and Maintenance Accessories (For AutoRAE 2 calibration system see page 68)

Part Number	Description	EUR PG
G02-2028-002	Calibration adapter - ToxiRAE Pro (non-PID) (Pack of 2)	€ 33.00 D1
G02-2027-002	Calibration adapter - ToxiRAE Pro PID (Pack of 2)	€ 33.00 D1
G02-0306-003	Combined instrument top cap / PID sensor cover removal tool - ToxiRAE Pro PID & MultiRAE Family (Pack of 3)	€ 33.00 D1
081-0017-000	PID sensor lamp cleaning kit (Note: The recommended cleaning fluid Isopropanol is not included)	€ 44.00 D2
G02-0304-000	PID 10.6eV sensor maintenance kit (includes sensor cap, electrode panel, and cap removal tool) (Used with ToxiRAE Pro family, MultiRAE family and AreaRAE Pro and Plus)	€ 28.00 D1
G02-2025-000	Opening Tool, 4R+ PID sensor	€ 28.00 D1
G02-0307-003	Filter replacement kit - ToxiRAE Pro (non-PID) (incl. cap, filter, and rubber gasket), Pack of 3	€ 32.00 D1
G02-0305-003	Filter replacement kit - ToxiRAE Pro PID (incl. cap, screw, filter and rubber gasket), Pack of 3	€ 32.00 D1

Replacement Parts

Part Number	Description	EUR PG
G01-2005-010-FRU	Alligator clip assembly (with screw and washers) (Pack of 10)	€ 48.00 D2
G02-3004-000	Rechargeable Li-ion battery	€ 93.00 D2
G02-3006-001	Fan assembly - ToxiRAE Pro PID (includes fan and the O-ring)	€ 214.00 D2
G02-2029-000	Protective rubber boot for ToxiRAE Pro (non-PID)	€ 32.00 D2
G02-2029-100	Protective rubber boot for ToxiRAE Pro PID	€ 32.00 D2

G02-2029-100

Protective rubber boot for ToxiRAE Pro PID

003-3004-000

Automotive charging adapter 12 VDC

G02-3013-001

Multi-unit charger for ToxiRAE Pro (AC adapter included)

G02-3004-000

Rechargeable Li-ion battery

G02-2029-000

Protective rubber boot for ToxiRAE Pro (non-PID)

500-0036-100

Universal wall charging adapter, 110 VAC to 240 VAC, 12 VDC (for single-unit charging and PC comm's cradle)

081-0017-000

PID sensor lamp cleaning kit (Note: The recommended cleaning fluid Isopropanol is not

G01-2005-010-FRU

Alligator clip assembly (with screw and washers) (Pack of 10)

G02-0305-003

Filter replacement kit - ToxiRAE Pro PID (incl. cap, screw, filter and rubber gasket), Pack of 3

G02-0307-003

Filter replacement kit - ToxiRAE Pro (non-PID) (incl. cap, filter, and rubber gasket), Pack of 3

G02-2027-002

Calibration adapter - ToxiRAE Pro PID (Pack of 2)

G02-2028-002

Calibration adapter - ToxiRAE Pro (non-PID) (Pack of 2)

G02-0304-000

PID 10.6eV sensor maintenance kit (includes sensor cap, electrode panel, and cap removal tool) (Used with ToxiRAE Pro family, MultiRAE family and

G02-0306-003

Combined instrument top cap / PID sensor cover removal tool - ToxiRAE Pro PID & MultiRAE Family (Pack of 3)

410-0203-000

PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black

G02-3008-000

Cradle for charging and PC communications (AC adapter or PC cable NOT included)

M02-3025-000

External Charger for Battery (ToxiRAE Pro and QRAE 3)

G02-3006-001

Fan assembly - ToxiRAE Pro PID (includes fan and the O-ring)

3. MicroRAE wireless Four-Gas Monitor (PGM-26XX Series)

The MicroRAE is a handheld wireless diffusion instrument that simultaneously monitors up to four gases, including Hydrogen Sulfide (H_2S), Carbon Monoxide (CO), Oxygen (O_2) and Combustibles (LEL).

With its wireless connectivity options, the MicroRAE can deliver real-time instrument readings and alarm status to the Honeywell ConneXt Safety Ecosystem. This enables continuous, instant visibility of safety threats for faster, more informed decisions, to protect workers, facilities, and the environment, and to optimize operations

Monitor-only configuration includes:
• Monitor as specified
• Sensors as specified
• Calibration adapter
• Travel charger cradle with computer cable
• Universal wall adapter
• Quick Reference guide

Optional Confined Space Kit 1 (CSK 1, P/N 020-0040-010) includes:
• Hard transport case with pre-cut foam
• Tool Kit
• Hand pump
• 10" stiff aluminum Sample probe with replaceable filter
• 6 feet (2 meters) Tygon® tubing
• External filter (pack of 3)

3.1 MicroRAE wireless Four-Gas Monitor

Listed below are some common configurations of the MicroRAE monitors. For others, please use the Assemble-To-Order (ATO) Configuration Guide below.

Standard Sensor Configurations - MicroRAE
PGM-2600 LEL / H_2S / CO / O_2 sensors

Part Number	Description	Wireless	Accessories Kit	EUR	PG
M032-1111-200	MicroRAE (ATEX) LEL (u) / H_2S / CO / O_2 - Li-ion / BLE		●	€ 680.00	A3
M032-1211-200	MicroRAE (ATEX) LEL (f) / H_2S / CO / O_2 - Li-ion / BLE		●	€ 680.00	A3
M032-2111-200	MicroRAE (ATEX) LEL (u) / H_2S / CO / O_2 - Li-ion / BLE + 868MHz + GPS	●	●	€ 848.00	A3
M032-2211-200	MicroRAE (ATEX) LEL (f) / H_2S / CO / O_2 - Li-ion / BLE + 868MHz + GPS	●	●	€ 848.00	A3
M032-1010-100	MicroRAE (ATEX) O_2 / CO - Li-ion / BLE - Monitor only		●	€ 544.00	A3
M032-1110-000	MicroRAE (ATEX) LEL(u) / O_2 - Li-ion / BLE - Monitor only		●	€ 544.00	A3
M032-1111-300	MicroRAE (ATEX) LEL(u) / O_2 / CO / HCN - Li-ion / BLE - Monitor only		●	€ 740.00	A3
M032-1211-000	MicroRAE (ATEX) LEL(f) / O_2 / CO - Li-ion / BLE - Monitor only		●	€ 612.00	A3
M032-2110-000	MicroRAE (ATEX) LEL(u) / O_2 - Li-ion / BLE + 868MHz + GPS - Monitor only	●	●	€ 712.00	A3
M032-2210-000	MicroRAE (ATEX) LEL(f) / O_2 - Li-ion / BLE + 868MHz + GPS - Monitor only	●	●	€ 712.00	A3
M032-8111-200	MicroRAE (ATEX) LEL(u) / O_2 / CO / H_2S - Li-ion / BLE + NB-IoT + GPS - Monitor only	●	●	€ 815.00	A3
M032-4111-200	MicroRAE (ATEX) LEL(u) / O_2 / CO / H_2S - Li-ion / BLE + Wi-Fi + GPS - Monitor only	●	●	€ 848.00	A3
M032-4211-200	MicroRAE (ATEX) LEL(f) / O_2 / CO / H_2S - Li-ion / BLE + Wi-Fi + GPS - Monitor only	●	●	€ 848.00	A3

Download the Honeywell Device Configurator App for MicroRAE on Android and iOS (iPhone and iPad)

For Android: https://play.google.com/store/apps/details?id=com.honeywell.his.ha.dc
For iOS   https://itunes.apple.com/us/app/device-configurator/id1194056427?mt=8

3.2 MicroRAE Configuration Guide PGM-2600 Series

Select one option from each Feature Group, **A** through **E**, to build a complete model number following this guide:

M03	A -	B	C	D	E -	F	G	0
PGM-2600	Certification	Wireless	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Kits	Always Zero

							EUR
A	**Certification**						**EUR**
2	ATEX/IECEx (Europe+India)						€ 408.00
H	Custom Union						€ 408.00
	B	**Wireless**					**EUR**
	1	BLE					€ 0.00
	2	BLE+MESH(868MHz)+GPS, Europe					€ 168.00
	4	BLE+Wi-Fi+GPS					€ 168.00
	8	BLE + NB-IoT + GPS					€ 135.00
	A	BLE+MESH(869MHz)+GPS-RM900, Russia only					€ 168.00
	B	BLE+MESH(865.6+866.4MHz)+GPS-RM900, India only					€ 168.00
		C	**Socket1 Sensor**				**EUR**
		0	Empty				€ 0.00
		1	LEL - Includes H_2S LEL filter (014-3603-000)				€ 68.00
		2	LEL Filtered - Includes H_2S + Si LEL filter (014-3604-000)				€ 68.00
			D	**Socket2 Sensor**			**EUR**
			0	Empty			€ 0.00
			1	Liq. O_2 (0 to 30% at 0.1% Resolution)			€ 68.00
				E	**Socket3 Sensor**		**EUR**
				0	Empty		€ 0.00
				1	CO 0 to 1,000 ppm		€ 68.00
					F	**Socket4 Sensor**	**EUR**
					0	Empty	€ 0.00
					1	CO 0 to 1,000 ppm	€ 68.00
					2	H_2S 0 to 100 ppm	€ 68.00
					3	HCN 0 to 50 ppm	€ 128.00
						G	**Kits**	**EUR**
						0	Mintor Only	€ 0.00

Note: MicroRAE cannot be ordered with less than 2 sensors installed in the same instrument

* **Note**: When ordering electrochemical sensors, please select the lower number first

M03	A-	B	C	D	E-	F	G	0

Example:

MicroRAE (ATEX) LEL (f) / H₂S / CO / O₂ - Li-ion / BLE

| M03 | 2- | 1 | 2 | 1 | 1- | 2 | 0 | 0 | → 408+0+68+68+68+68+0 = EUR 680 |

MicroRAE (ATEX) LEL(f) / O₂ - Li-ion / BLE + 868MHz + GPS - Monitor only

| M03 | 2- | 2 | 2 | 1 | 0- | 0 | 0 | 0 | → 408+168+68+68+0+0+0 = EUR 712 |

3. MicroRAE wireless Four-Gas Monitor (PGM-26XX Series)

3.3 MicroRAE Accessories, Sensors, and Replacement Parts

Part Number	Description	EUR	PG
032-0600-001	Carbon Monoxide sensor (CO)	€ 126.00	D2
032-0601-002	Hydrogen Sulfide sensor (H_2S)	€ 126.00	D2
032-0616-000	Hydrogen Cyanide sensor (HCN)	€ 294.00	D2
022-0617-000	Oxygen sensor (O_2)	€ 168.00	D2
014-0600-000	%LEL combustibles sensor	€ 158.00	D2
014-3603-005	Filter H_2S, Mini LEL Sensor (Pack of 5)	€ 28.00	D2
014-3604-005	Filter H_2S+Si, Mini LEL Sensor (Pack of 5)	€ 28.00	D2
M03-2025-005	Dummy Sensor,Mini EC (Pack of 5)	€ 28.00	D2
M03-2026-005	Dummy Sensor,Mini LEL (Pack of 5)	€ 28.00	D2
M03-3005-000	Travel charger*	€ 84.00	D1
M03-0301-000	Cradle charger*	€ 74.00	D1
500-0036-102	AC adapter with international prong kit (for single-unit charging and PC comm's cradle)	€ 48.00	D1
020-2480-000	One-to-five Power Cable**	€ 56.00	D1
M03-0300-000	Gang charger (with Power Adaper,AC/DC,90-264V Input,12VDC/3A Output)**	€ 515.00	D1
500-0156-000	Power Adapter,AC/DC,90-264V Input,12VDC/3A Output (for on- to-five power cable and Multi charger)	€ 95.00	D1
M03-0302-000	Kit,Truck Mount Charging Cradle for MicroRAE***	€ 237.00	D1
003-3004-000	Automotive charging adapter 12 VDC	€ 39.00	D1
410-0203-000	PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black	€ 30.00	D1
M03-3003-000	Calibration cap with tubing	€ 45.00	D1
020-0040-010	Confinded Space Kit CSK1 (does not include monitor)	€ 211.00	D1
G01-2005-010-FRU	Alligator clip assembly (with screw and washers) (Pack of 10)	€ 48.00	D2
M03-3011-000	Front cover Assy MicroRAE	€ 106.00	D2
M03-3010-000	Back Plate Screws W/O-Ring (Pack of 10)	€ 24.00	D2
002-3013-000	Wrist strap	€ 18.00	D2
M03-3009-000	Auxiliary filter (External Filter)	€ 25.00	D2
M03-2007-010	Service kit membrane waterproof (Pack of 10)	€ 46.00	D2
M03-4005-000	Product CD	€ 28.00	D2

Notes:

*Compatible with PN:500-0036-102

**Compatible with PN: 500-0156-000

***Compatible with PN: 003-3004-000

3. MicroRAE wireless Four-Gas Monitor (PGM-26XX Series)

3.4 Rugged Smart Hand Held

Rugged Smart Hand Held is an Android-based mobile application and phone that enables real-time communication between a worker's personal instruments and a remote monitoring system. The phone and the application act as a personal communication hub for a worker, which collects instrument readings and alarms from instruments over Bluetooth (BLE) or Wi-Fi and transmits in real time to a remote system over a 3G/4G/LTE communication network. The application also transmits a worker's information and location to the remote system, which allows safety managers to quickly react and provide necessary assistance in case of an emergency. This solution not only provides realtime visibility of worker safety, but it also improves productivity with real-time access to remote information and colaboration with peers.

Part Number	Description	EUR	PG
029-5402-200	Rugged Smart Hand Held (EU/UK)	€ 981.00	C3
029-5401-000	Zone 1 (IS) Rugged Smart Hand-Held (North America)*	€ 2,024.00	C3
029-5401-200	Zone 1 (IS) Rugged Smart Hand-Held (EU)*	€ 2,024.00	C3

Note 1: Please note that the Safety Communicator app is NOT pre-loaded onto the Rugged Smart Hand Held
Note 2: A ProRAE Guardian license is needed to connect to RAE Systems' Real Time Monitoring
* Check for Availability

3.5 ProRAE Guardian™ Cloud Real Time Monitoring Subcription Base Model

The Subscription Model provides the end customers the ability to get license keys that are valid for a fixed duration of time or to allow rental houses to get license keys to lease out the software to their end customers for a fixed duration of time. Subscription based licenses cannot be combined with perpetual licenses.

Part Number	Description	EUR	PG
S01-1000-210	ProRAE Guardian Real-time Monitoring Tier 1 Yearly Subscription per Instrument	€ 146.00	C4

• *License Count: Total Workers counted, Inactive Workers not counted*

• *Offered in 1 year contract*

3. MicroRAE wireless Four-Gas Monitor (PGM-26XX Series)

500-0036-102
AC adapter with international prong kit (for single-unit charging and PC comm's cradle)

410-0203-000
PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black

M03-0301-000
Cradle charger*

M03-0300-000
Gang charger (with Power Adaper,AC/DC,90-264V Input,12VDC/3A Output)**

M03-3005-000
Travel charger*

M03-0302-000
Kit,Truck Mount Charging Cradle for MicroRAE***

M03-3003-000
Calibration cap with tubing

M03-3009-000
Auxiliary filter (External Filter)

G01-2005-010-FRU
Alligator clip assembly (with screw and washers) (Pack of 10)

014-3603-005
Filter H_2S, Mini LEL Sensor (Pack of 5)

Notes:
*Compatible with PN:500-0036-102
**Compatible with PN: 500-0156-000
***Compatible with PN: 003-3004-000

4. QRAE 3 One-to-Four-Gas Detector (PGM-25XX Series)

The QRAE 3 is a durable and versatile diffusion or pumped one-to-four gas monitor for detection of combustibles, oxygen, hydrogen sulfide, carbon monoxide, sulfure dioxide and hydrogen cyanide and other gases. Standard features include easy-to-change battery packs, easy access to sensors, internal vibrating alarm, loud 95dB audible alarm, and a water-resistant IP-65 case design. The rechargeable Lithium-ion battery delivers up to 14 hours of continuous operation in non-wireless diffusion mode.

QRAE 3 integrated wireless option allows the device to be used either in a closed loop system (compatible with EchoView host) or with ProRAE Guardian, Real-Time Wireless Safety System.

Monitor-only configuration includes:

- Monitor as specified
- Sensors as specified
- Sampling option as specified
- Calibration adapter (diffusion model only)
- T Calibration tube (pumped model only M02-3008-000)
- Internal filters (mounted - diffusion model only)
- External filters (one mounted plus pack of 3 - pumped model only)
- Travel charger cradle with computer cable (M02-3026-000/410-0203-000)
- Lithium-ion battery pack (G02-3004-000)
- Universal wall adapter (500-0036-102)
- CD ROM with ProRAE Studio II
- CD ROM with product content
- Quick Reference guide
- Barrier Box (M02-3011-000)

Optional Confined Space Kit 1 (CSK 1, P/N 020-0040-010) includes:
- Hard transport case with pre-cut foam
- Tool Kit
- Hand pump
- 10" stiff aluminum Sample probe with replaceable filter
- 6 feet (2 meters) Tygon® tubing
- External filter (pack of 3)(008-3022-003)

4.1 QRAE 3, PGM-2500 Series (LEL / H_2S / CO / O_2 / SO_2 / HCN / PH_3 / NH_3)

Note: Both the QRAE 3 diffusion & pumped models are compatible with QRAE 3 Cradle for AutoRAE 2 Automatic Test and Calibration

Listed below are some common configurations of the QRAE 3 monitors.
For others, please use the Assemble-To-Order (ATO) Configuration Guide below.

Standard Sensor Configurations - QRAE 3

Part Number	Description	Diffusion	Pupmed	Wireless	Accessories Kit	EUR	PG
M020-12111-111	QRAE3 PGM-2500 Pumped ATEX LEL / H_2S / CO / O_2 - Li-ion / Non-Wireless		●		●	€ 980.00	A3
M020-12311-111	QRAE3 PGM-2500 Pumped ATEX LEL / H_2S / CO / O_2 - Li-ion / Wireless (868MHz)		●	●	●	€ 1,154.00	A3
M020-22111-111	QRAE3 PGM-2500 Diffusion ATEX LEL / H_2S / CO / O_2 - Li-ion / Non-Wireless	●			●	€ 776.00	A3
M020-22311-111	QRAE3 PGM-2500 Diffusion ATEX LEL / H_2S / CO / O_2 - Li-ion / Wireless (868MHz)	●		●	●	€ 950.00	A3
M020-12311-131	QRAE3 PGM-2500 Pumped ATEX LEL / H_2S / O_2 / SO_2 - Li-ion / Wireless (868MHz)		●	●	●	€ 1,207.00	A3
M020-22113-101	QRAE3 PGM-2500 Diffusion ATEX LEL / SO_2 / O_2 - Li-ion / Non-Wireless	●			●	€ 759.00	A3
M020-12110-101	QRAE3 PGM-2500 Pumped ATEX LEL /O_2 - Li-ion / Non-Wireless		●		●	€ 840.00	A3

4. QRAE 3 One-to-Four-Gas Detector (PGM-25XX Series)

4.2 QRAE 3 Configuration Guide PGM-2500 Series (LEL / H_2S / CO / O_2 / SO_2 / HCN / PH_3 / NH_3)

Select one option from each Feature Group, **A** through **H**, to build a complete model number following this guide:

M020-	A	B	C	D	E -	F	G	H
QRAE 3 PGM-2500	Sampling Option	Certification	Wireless	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Kits

A	Pump & Diffusion	EUR
1	QRAE 3 - Pump	€ 702.00
2	QRAE 3 - Diffusion	€ 498.00

* Note: QRAE 3 cannot be ordered with less than 2 sensors installed in the same instrument

B	Certification	EUR
2	ATEX (Europe + India)	€ 0.00
H	Custom Union	€ 0.00

C	Wireless	EUR
1	no-wireless	€ 0.00
3	868M wireless, Europe	€ 174.00
A	869M,RM900, Russia	€ 174.00
B	865.6+866.4M,RM900, India	€ 174.00

* Note: When ordering electrochemical sensors, please select the lower number first

D	Socket1 Sensor	EUR
0	Empty	€ 0.00
1	LEL (0 to 100% LEL, 1% res.)	€ 68.00

E	Socket2 Sensor	EUR
0	Empty	€ 0.00
1	H_2S (0 to 100 ppm, 0.1 ppm res.)	€ 70.00
2	CO (0 to 500 ppm, 1ppm res.)	€ 70.00
3	SO_2 (0 to 20 ppm, 0.1ppm res.)	€ 123.00
4	HCN (0 to 50 ppm, 0.2ppm res.)	€ 133.00
5	PH_3 (20 ppm, 0.01ppm res.)	€ 413.00
6	NH_3 (100 ppm, 1ppm res.)	€ 413.00

We do not recommend the following EC sensor combinations:
NH3 / H2S
NH3 / SO2
HCN/ H2S

F	Socket3 Sensor	EUR
0	Empty	€ 0.00
1	Liq. O_2 (0 to 30.0%, 0.1% res.)	€ 70.00

G	Socket4 Sensor	EUR
0	Empty	€ 0.00
1	CO (0 to 500 ppm, 1ppm res.)	€ 70.00
2	H_2S (0 to 100 ppm, 0.1 ppm res.)	€ 70.00
3	SO_2 (0 to 20 ppm, 0.1ppm res.)	€ 123.00
4	HCN (0 to 50 ppm, 0.2ppm res.)	€ 133.00
5	PH_3 (20 ppm, 0.01ppm res.)	€ 413.00
6	NH_3 (100 ppm, 1ppm res.)	€ 413.00

Note: Please refer to TN114 for cross interference between electrochemical sensors

H	Kits	EUR
1	Accessory Kit	€ 0.00

M020-	A	B	C	D	E-	F	G	H

Example:

QRAE 3 Pumped ATEX LEL / H₂S / CO / O₂ - Li-ion / Non-Wireless

M020- 1 2 1 1 1- 1 1 1 → 702+0+0+68+70+70+70+0 = EUR 980

QRAE 3 Diffusion ATEX LEL / H₂S / CO / O₂ - Li-ion / Wireless (868MHz)

M020- 2 2 3 1 1- 1 1 1 → 498+0+174+68+70+70+70+0=EUR 950

4. QRAE 3 One-to-Four-Gas Detector (PGM-25XX Series)

4.3 QRAE 3, PGM-2560 Series (LEL / H_2S / CO / O_2 / SO_2 / HCN / PH_3 / NH_3 / Cl_2 / NO_2)

Note: Both the QRAE 3 diffusion and pumped models are compatible with QRAE 3 Cradle for AutoRAE 2 Automatic Test and Calibratio

Listed below are some common configurations of the QRAE 3 monitors.
For others, please use the Assemble-To-Order (ATO) Configuration Guide below.
Standard Sensor Configurations - QRAE 3

Part Number	Description	Diffusion	Pupmed	Wireless	Accessories Kit	EUR	PG
M026-12102-011	QRAE3 PGM-2560 Pumped ATEX NO_2 / CO - Li-ion / Non-Wireless		•		•	€ 1,116.00	A3
M026-12111-101	QRAE3 PGM-2560 Pumped ATEX LEL / Cl_2 / O_2 - Li-ion / Non-Wireless		•		•	€ 1,184.00	A3
M026-12111-111	QRAE3 PGM-2560 Pumped ATEX LEL / Cl_2 / O_2 / CO - Li-ion / Non-Wireless		•		•	€ 1,254.00	A3
M026-12111-151	QRAE3 PGM-2560 Pumped ATEX LEL / Cl_2 / O_2 / PH_3 - Li-ion / Non-Wireless		•		•	€ 1,597.00	A3
M026-22102-011	QRAE3 PGM-2560 Diffusion ATEX NO_2 / CO - Li-ion / Non-Wireless	•			•	€ 912.00	A3
M026-22102-111	QRAE3 PGM-2560 Diffusion ATEX NO_2 / O_2 / CO - Li-ion / Non-Wireless	•			•	€ 982.00	A3
M026-12311-111	QRAE3 PGM-2560 Pumped ATEX LEL / Cl_2 / O_2 / CO - Li-ion / Wireless (868MHz)		•	•	•	€ 1,428.00	A3

4.4 QRAE 3 Configuration Guide PGM-2560 Series (LEL/H_2S/CO/O_2/SO_2/HCN/PH_3/NH_3/Cl_2/NO_2)

Select one option from each Feature Group, **A** through **H**, to build a complete model number following this guide:

M026-	A	B	C	D	E -	F	G	H
QRAE 3 PGM-2560	Sampling Option	Certification	Wireless	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Kits

A	Pump & Diffusion	EUR
1	QRAE 3 - Pump	€ 702.00
2	QRAE 3 - Diffusion	€ 498.00

B	Certification	EUR
2	ATEX (Europe + India)	€ 0.00
H	Custom Union	€ 0.00

C	Wireless	EUR
1	no-wireless	€ 0.00
3	868M wireless, Europe	€ 174.00
A	869M,RM900, Russia	€ 174.00
B	865.6+866.4M,RM900, India	€ 174.00

D	Socket1 Sensor	EUR
0	Empty	€ 0.00
1	LEL	€ 68.00

E	Socket2 Sensor	EUR
0	Empty	€ 0.00
1	Cl_2 (0 to 50 ppm, 0.05ppm res.)	€ 344.00
2	NO_2 (0 to 50 ppm, 0.1ppm res.)	€ 344.00

F	Socket3 Sensor	EUR
0	Empty	€ 0.00
1	Liq. O_2 (0 to 30.0%, 0.1% res.)	€ 70.00

G	Socket4 Sensor	EUR
0	Empty	€ 0.00
1	CO (0 to 500 ppm, 1ppm res.)	€ 70.00
2	H_2S (0 to 100 ppm, 0.1 ppm res.)	€ 70.00
3	SO_2 (0 to 20 ppm, 0.1ppm res.)	€ 123.00
4	HCN (0 to 50 ppm, 0.2ppm res.)	€ 133.00
5	PH_3 (20 ppm, 0.01ppm res.)	€ 413.00
6	NH_3 (100 ppm, 1ppm res.)	€ 413.00

H	Kits	EUR
1	Accessory Kit	€ 0.00

* **Note**: QRAE 3 cannot be ordered with less than 2 sensors installed in the same instrument

* **Note**: When ordering electrochemical sensors, please select the lower number first

Note: Please refer to TN114 for cross interference between electrochemical sensors

M026-	A	B	C	D	E-	F	G	H

Example:

QRAE3 PGM-2560 Pumped ATEX NO_2 / CO - Li-ion / Non-Wireless

M026-	1	2	1	0	2-	0	1	1

→ 702+0+0+0+344+0+70+0 = EUR 1116

QRAE3 PGM-2560 Pumped ATEX LEL / Cl_2 / O_2 / CO - Li-ion / Wireless (868MHz)

M026-	1	2	3	1	1-	1	1	1

→ 702+0+174+68+344+70+70+0=EUR 1428

4. QRAE 3 One-to-Four-Gas Detector (PGM-25XX Series)

4.5 QRAE 3 Accessories, Sensors, and Replacement Parts

Accessories			
Part Number	**Description**	**EUR**	**PG**
M02-3026-000	Travel charger for ATEX certified model	€ 93.00	D1
M02-3011-000	Barrier Box for ATEX certified model	€ 72.00	D1
M02-0303-000	Truck Mount Charging Cradle For QRAE 3 (needs 003-3004-000)	€ 284.00	D1
003-3004-000	Automotive charging adapter 12 VDC	€ 39.00	D1
500-0036-102	AC adapter with international prong kit (for single-unit charging and PC comm's cradle)	€ 48.00	D1
020-2480-000	One-to-five Power Cable**	€ 56.00	D1
M02-3025-000	External Charger for Battery (ToxiRAE Pro and QRAE 3)	€ 113.00	D1
410-0203-000	PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black	€ 30.00	D1
M02-2041-000	QRAE 3 holster case	€ 52.00	D1
M02-3024-000	QRAE 3 holster case with shoulder strap	€ 77.00	D1
M02-2042-000	Shoulder strap for QRAE 3 holster case	€ 27.00	D1

Replacement parts			
Part Number	**Description**	**EUR**	**PG**
G02-3004-000	Rechargeable Li-ion battery	€ 93.00	D2
M02-3019-000	Battery Cover	€ 27.00	D2
M02-2034-020	Dust Filter for Diffusion model (pack of 20)	€ 36.00	D2
M02-2034-100	Dust Filter for Diffusion model (pack of 100)	€ 178.00	D2
008-3022-010	External Water trap filter 25mm without Adapter (pack of 10) for pumped model	€ 29.00	D1
M02-3028-000	External filter tubing extension (pack of 1)	€ 13.00	D2
M02-3028-010	External filter tubing extension (pack of 10)	€ 81.00	D2
M02-2033-010	Mesh filter (pumped model -pack of 10)	€ 17.00	D2
020-3603-000-FRU	Pump assembly	€ 214.00	D2
M02-3003-100	Gas plate assembly with sensor sealing for pumped model	€ 56.00	D2
M02-3006-001	Sensor Cover Assy for diffusion model	€ 56.00	D2
M02-3015-000	Front cover Assy QRAE 3 (PGM-2500/D - PGM-2560/D)	€ 113.00	D2
G01-2005-010-FRU	Alligator clip assembly (with screw and washers) (Pack of 10)	€ 48.00	D2
M02-3027-000	Swivel Belt Clip (with screw and sasher)	€ 32.00	D2
M02-3021-000	O-rings kit for pumped model	€ 17.00	D2
M02-4008-000	Product CD	€ 32.00	D2

Replacement Sensors			
Part Number	**Description**	**EUR**	**PG**
032-0200-003	Carbon Monoxide sensor * (0 to 500 ppm, 1ppm res.)	€ 175.00	D2
032-0202-003	Hydrogen Sulfide sensor * (0 to 100 ppm, 0.1ppm res.)	€ 175.00	D2
032-0204-000	Sulfure Dioxide sensor * (0 to 20 ppm, 0.1ppm res.)	€ 298.00	D2
032-0127-000	Hydrogen Cyanide sensor (4R format)* (0 to 50 ppm, 0.2 ppm res.)	€ 284.00	D2
032-0205-000	Hydrogen Cyanide sensor (3R format)* (0 to 50 ppm, 0.2 ppm res.)	€ 284.00	D2
014-0215-000	%LEL combustibles sensor * (0 to 100% LEL, 1% LEL res.)	€ 175.00	D2
022-0902-000	Oxygen sensor * (0 to 30.0%, 0.1% res.)	€ 175.00	D2
032-0207-000	Ammonia sensor* (100 ppm, 1 ppm res.)	€ 433.00	D2
032-0206-000	Phosphine sensor* (20 ppm, 0.01 ppm res.)	€ 433.00	D2
032-0208-000	Chlorine sensor* (0 to 50 ppm, 0.05 ppm res.)	€ 395.00	D2
032-0209-000	Nitrogen Dioxide sensor* (0 to 50 ppm, 0.1 ppm res.)	€ 364.00	D2
046-3013-005	Dummy sensor 3R (e.g. QRAE3, QRAE II LEL, H_2S, and CO sensors) (Pack of 5)	€ 30.00	D2
046-3012-005	Dummy sensor 4R format (pack of 5)	€ 29.00	D2

* Please make sure spare sensor is compatible with QRAE3 model

**Compatible with PN: 500-0156-000

4. QRAE 3 One-to-Four-Gas Detector (PGM-25XX Series)

Calibration Gas and Confined Space Kits

Part Number	Description	EUR	PG
4GA18X25W10H50-58	Disposable Gas 4 Gas 50ppm-CO 10ppm-H_2S 2.5%-CH_4 18%-O_2 in-N_2,12 month,58l	€ 210.00	A5
GasHCN-10-N2-58	Disposable Gas 1 Gas 10ppm-HCN in-N_2,6 Month,58l	€ 418.00	A5
GasSO2-10-N2-58	Disposable Gas 1 Gas 10ppm-SO_2 in-N_2, 12 month,58l	€ 184.00	A5
GasCO-50-Air-58	Disposable Gas 1 Gas 50ppm-CO in-air,60 month,58l	€ 158.00	A5
Reg-0.50	Manual regulator for disposable bottles 0.5 LPM (Liter per Minute)	€ 141.00	D1
M02-3008-000	T calibration tube for pump model	€ 21.00	D1
M02-3009-100	Calibration cap with tubing for diffusion model	€ 21.00	D1
020-0040-010	Confinded Space Kit CSK1 (does not include monitor)	€ 211.00	D1
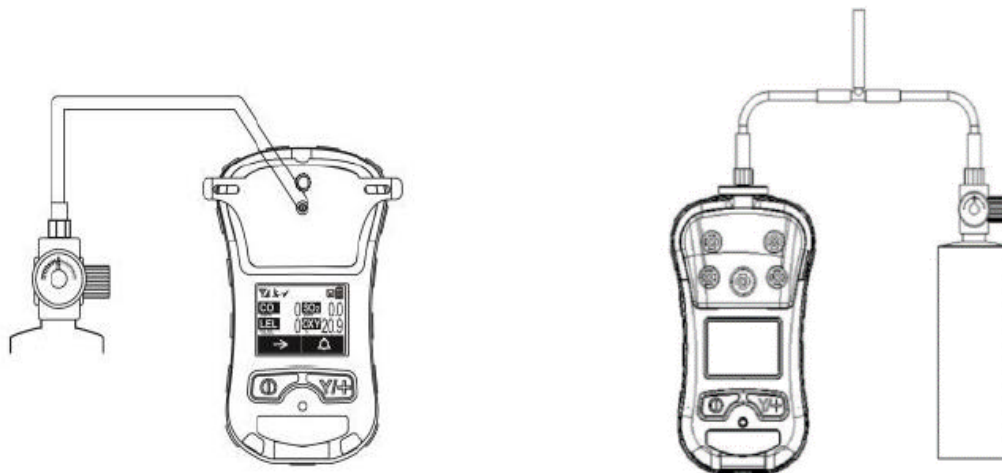
Diffusion models require calibration cap
(no T-calibration tube)

Pumped models require a T-
calibration tube, as illustrated

4. QRAE 3 One-to-Four-Gas Detector (PGM-25XX Series)

410-0203-000

PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black

500-0036-102

AC adapter with international prong kit (for single-unit charging and PC comm's cradle)

003-3004-000

Automotive charging adapter 12 VDC

M02-0303-000

Truck Mount Charging Cradle For QRAE 3 (needs 003-3004-000)

M02-3026-000

Travel charger for ATEX certified model

M02-3008-000

T calibration tube for pump model

M02-3009-100

Calibration cap with tubing for diffusion model

M02-3011-000

Barrier Box for ATEX certified model

M02-3025-000

External Charger for Battery (ToxiRAE Pro and QRAE 3)

M02-3028-000

External filter tubing extension (pack of 1)

M02-3024-000

QRAE 3 holster case with shoulder strap

M02-2041-000

QRAE 3 holster case

G02-3004-000

Rechargeable Li-ion battery

008-3022-010

External Water trap filter 25mm without Adapter (pack of 10) for pumped model
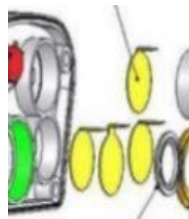
M02-2034-020

Dust Filter for Diffusion model (pack of 20)

400-0073-020

Male Luer connector (pack of 20)

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

The MultiRAE Family of Wireless Multi-Threat Monitors - Wireless, Versatile, Proven (Models PGM-62X8)
MultiRAE portable multi-threat monitors combine best-in-class detection capabilities with optional integrated wireless functionality to help elevate safety of workers and responders and reduce facility downtime. MultiRAE monitors offer an industry-leading selection of interchangeable electrochemical, combustible, infrared, PID (photo-ionization detector), and radiation sensors to protect users from a broad range of toxic and combustible gases, volatile organic compounds (VOC), gamma radiation, and oxygen deficiency / enrichment in a wide variety of applications.

	MultiRAE Pro	MultiRAE	MultiRAE Lite
Gamma Radiation Sensor	Yes		
PPB PID* (10.6 eV; 0.01 - 2,000 ppm; 10 ppb res.)	Yes		
High-Range PPM PID* (10.6 eV; 0.1 - 5,000 ppm; 0.1 ppm res.)	Yes	Yes	
PPM PID* (10.6 eV; 1 - 1,000 ppm; 1 ppm res.)			MultiRAE Lite Pumped Only
20+ Electrochemical Sensors	Yes	Yes	Yes
ETO-C Extended Range			MultiRAE Lite Diffusion Only
Hydrogen (H_2) Sensor			MultiRAE Lite Diffusion Only
H_2S, HR Extended-range Sensor			MultiRAE Lite Diffusion Only
Catalytic %LEL Sensor	Yes	Yes	Yes
Combustible NDIR Sensors (%LEL or %Vol. CH_4)	Yes	Yes	Yes
CO_2 NDIR Sensor	Yes	Yes	Yes
Integrated Wireless Modem (Optional)	Yes	Yes	Yes
Sampling	Pumped	Pumped	Pumped or Diffusion
IP Rating	IP-65	IP-65	IP-65 (Pumped) / IP-67 (Diffusion)
Default Rubber Boot Color	Black	Yellow	Yellow
Automatic Test and Calibration System	AutoRAE 2	AutoRAE 2	AutoRAE 2 (Pumped Only)
Monitor-Only (Ordered Without a Kit) Comes in a…	"Pelican" case	Hard plastic case	Cardboard box with sleeve

* PID sensor requires a pumped configuration

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

5.1 MultiRAE Lite Monitors (Models PGM-6208 and PGM-6208D)

MultiRAE Lite wireless portable one-to-six gas personal protection / confined space monitors

Monitor-Only Configuration Includes:
- MultiRAE Lite monitor with sensors, battery and wireless options as specified, and protective rubber boot and filter(s) installed
- Continuous datalogging (6 mo's for 5 sensors @ 1-min. intervals)
- Travel charger (M01-3021-000)/ PC communications adapter
- PC communication cable (410-0203-000)
- AC adapter
- Calibration adapter
- Alkaline battery adapter
- Toolkit with Hex tool and Phillips screwdriver
- Quick Start Guide
- ProRAE Studio II Instrument Configuration & Data Management Software
- Calibration and test certificate

The pumped model of MultiRAE Lite also includes:
- Built-in pump
- Belt clip installed
- 3 spare external filters
- PID sensor cap removal tool

Instrument ships in a cardboard box with a colorful sleeve

Additional accessories, automatic calibration systems, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portables Pricing Guide

Optional Accessories / Confined Space Kit Adds:
- Hard transport case with custom foam (P/N: M01-3203-000)
- Remote Sample Draw Kit (P/N: 008-3015-200)
    - 10'' (26 cm) aluminum sample probe with replaceable filters
    - 3 hydrophobic barrier filters
    - 10' (3 m) self-coiling Teflon® tubing w/ Luer-style quick-connect fitting

Optional Calibration Kits Add:
- 4-gas mix (34L; 50% LEL, 18% O_2, 10 ppm H_2S, 50 ppm CO) + regulator
  OR
- 100 ppm Isobutylene gas (34L) with regulator
  OR
- 4-gas mix (34L; 50% LEL, 18% O_2, 10 ppm H_2S, 50 ppm CO) + regulator
- AND 100 ppm Isobutylene gas (34L) with regulator

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

Listed below are some common configurations of the MultiRAE Lite monitors. For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Part Number	Description	PID Sensor	CO2 NDIR Sensor	Pumped	Wireless	Li-ion Rechargeable	Accessories Kit	Calibration Kit	EUR	PG
MAA3-A2C112E-020	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Non-Wireless/Unit only	•		•		•			€ 2,090.00	A3
MAA3-A2C112E-021	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Non-Wireless/Unit with Accessories / Confined Space Kit (no gas or regulator)	•		•		•	•		€ 2,390.00	A3
MAA3-A2C112E-02G	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Non-Wireless/Unit with Accessories / Confined Space and Calibration (4-gas + Iso) Kits	•		•		•	•	•	€ 3,230.00	A3
MAA3-A2C112E-320	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Wireless (868 MHz)/Unit only	•		•	•	•			€ 2,268.00	A3
MAA3-A2C112E-321	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space Kit (no gas or regulator)	•		•	•	•	•		€ 2,568.00	A3
MAA3-A2C112E-32G	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space and Calibration (4-gas + Iso) Kits	•		•	•	•	•	•	€ 3,408.00	A3
MAA3-A2C1R3E-020	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / CO + H_2S / SO_2 / O_2 / Li-ion / Non-Wireless/Unit only	•		•		•			€ 2,387.00	A3
MAA3-A2C1R3E-021	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / CO + H_2S / SO_2 / O_2 / Li-ion / Non-Wireless/Unit with Accessories / Confined Space Kit (no gas or regulator)	•		•		•	•		€ 2,687.00	A3
MAA3-A2C1R3E-320	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / CO + H_2S / SO_2 / O_2 / Li-ion / Wireless (868 MHz)/Unit only	•		•	•	•			€ 2,565.00	A3
MAA3-A2C1R3E-321	MultiRAE Lite-Pumped / 10.6 eV PID / LEL / CO + H_2S / SO_2 / O_2 / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space Kit (no gas or regulator)	•		•	•	•	•		€ 2,865.00	A3
MAA3-B8C102E-020	MultiRAE Lite-Pumped / CO_2 / LEL / CO / O_2 / Li-ion / Non-Wireless/Unit only		•	•		•			€ 2,132.00	A3
MAA3-B8C102E-021	MultiRAE Lite-Pumped / CO_2 / LEL / CO / O_2 / Li-ion / Non-Wireless/Unit with Accessories / Confined Space Kit (no gas or regulator)		•	•		•	•		€ 2,432.00	A3
MAA3-B8C102E-320	MultiRAE Lite-Pumped / CO_2 / LEL / CO / O_2 / Li-ion / Wireless (868 MHz)/Unit only		•	•	•	•			€ 2,310.00	A3
MAA3-B8C102E-321	MultiRAE Lite-Pumped / CO_2 / LEL / CO / O_2 / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space Kit (no gas or regulator)		•	•	•	•	•		€ 2,610.00	A3
MAA3-0EC1123-020	MultiRAE Lite-Pumped / O_2 / LEL / H_2S / CO / SO_2 / Li-ion / Non-Wireless/Unit only			•		•			€ 1,809.00	A3
MAA3-0EC1123-021	MultiRAE Lite-Pumped / O_2 / LEL / H_2S / CO / SO_2 / Li-ion / Non-Wireless/Unit with Accessories / Confined Space Kit (no gas or regulator)			•		•	•		€ 2,109.00	A3
MAA3-0EC1123-320	MultiRAE Lite-Pumped / O_2 / LEL / H_2S / CO / SO_2 / Li-ion / Wireless (868 MHz)/Unit only			•	•	•			€ 1,987.00	A3
MAA3-0EC1123-321	MultiRAE Lite-Pumped / O_2 / LEL / H_2S / CO / SO_2 / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space Kit (no gas or regulator)			•	•	•	•		€ 2,287.00	A3
MAA6-B8C101E-020	MultiRAE Lite-Diffusion / CO_2 / LEL / H2S / O_2 / Li-ion / Non-Wireless/Unit only		•			•			€ 2,029.00	A3
MAA6-B8C101E-021	MultiRAE Lite-Diffusion / CO_2 / LEL / H2S / O_2 / Li-ion / Non-Wireless/Unit with Accessories / Confined Space Kit (no gas or regulator)		•			•	•		€ 2,329.00	A3
MAA6-B8C101E-320	MultiRAE Lite-Diffusion / CO_2 / LEL / H2S / O_2 / Li-ion / Wireless (868 MHz)/Unit only		•		•	•			€ 2,207.00	A3
MAA6-B8C101E-321	MultiRAE Lite-Diffusion / CO_2 / LEL / H2S / O_2 / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space Kit (no gas or regulator)		•		•	•	•		€ 2,507.00	A3

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

5.2 MultiRAE Lite Monitors Configuration Guide (Models PGM-6208 and PGM-6208D)

MA	R	M-	AA	BB	C	D	E-	F	G	H
MultiRAE Lite	Certification	Model	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Wireless Options	Battery Options	Kits and Accessories

R	Certification of Intrinsic Safety	EUR
A	ATEX / IECEx (Europe+India)	€ 0.00
H	Custom Union	€ 0.00

M	Model	EUR
3	MultiRAE Lite - Pumped (PGM-6208)	€ 665.00
6	MultiRAE Lite - Diffusion (PGM-6208D)	€ 562.00

	Sensor Options	AA	BB	C	D	E	EUR
00/0	Dummy Sensor						€ 0.00
	4R+ PID Sensors						
A2	PID, LR, 10.6 eV PID sensor (0 to 1,000 ppm; 1 ppm resolution)						€ 581.00
	Combustible NDIR Sensors						
B4	NDIR, % LEL Combustible sensor (0-100% LEL CH4)						€ 798.00
B5	NDIR, % Vol. Combustible sensor (0-100% Vol. CH4 ,0.1% Vol Res.)						€ 798.00
	CO₂ NDIR Sensors						
B8	CO₂ NDIR, HR Carbon dioxide sensor (up to 50,000 ppm, 100ppm Res.)						€ 798.00
	LEL Catalytic Bead Sensor						
C1	LEL Combustible catalytic bead LEL sensor						€ 175.00
	Electrochemical Sensors*						
01/1	H₂S**/*** Hydrogen Sulfide sensor (up to 100 ppm reading)						€ 175.00
02/2	CO Carbon Monoxide sensor (up to 500 ppm reading)						€ 175.00
03/3	SO₂ Sulfur Dioxide sensor (0 to 20 ppm, 0.1 ppm res.)						€ 300.00
04/4	NO**** Nitric Oxide sensor (0 to 250 ppm, 0.5 ppm res.)						€ 347.00
05/5	NO₂ Nitrogen Dioxide sensor (0 to 20 ppm, 0.1 ppm res.)						€ 347.00
06/6	Cl₂*** Chlorine sensor (0 to 50 ppm, 0.1 ppm res.)						€ 300.00
07/7	HCN Hydrogen Cyanide sensor (0 to 50 ppm, 0.5 ppm res.)						€ 403.00
08/8	NH₃**** Ammonia sensor (0 to 100 ppm, 1 ppm res.)						€ 403.00
09/9	PH₃ Phosphine sensor (up to 20 ppm reading)						€ 403.00
0A/A	ClO₂** Chlorine Dioxide sensor (0 to 1 ppm, 0.03 ppm res.)						€ 403.00
0D/D	CO, HR Carbon Monoxide sensor (up to 2,000 ppm, 10 ppm res.)						€ 300.00
0E/E	O₂ Oxygen sensor (0 to 30% Vol., 0.1% Vol. res.)						€ 175.00
0F/F	CO comp. H₂ Carbon Monoxide (H₂-compensated, 0-2,000 ppm, 10 ppm)						€ 347.00
0H/H	CH₃-SH Methyl Mercaptan sensor (0 to 10 ppm, 0.1 ppm)						€ 500.00
0J/J	EtO-A Ethylene Oxide sensor (0 - 100 ppm; 0.5 ppm res.)						€ 403.00
0K/K	EtO-B Ethylene Oxide sensor (0 - 10 ppm, 0.1 ppm res.)						€ 403.00
0L/L	EtO-C, HR§ Ethylene Oxide sensor (0 - 500 ppm; 10 ppm res.)						€ 403.00
0M/M	H₂§ Hydrogen sensor (0 to 1,000 ppm, 10 ppm res.)						€ 403.00
0N/N	H₂S, HR**/*** Hydrogen Sulfide sensor (0 to 1,000 ppm, 1 ppm res.)						€ 175.00
0Q/Q	HCHO Formaldehyde sensor (0 to 10 ppm, 0.05 ppm res.)						€ 692.00
0R/R	CO+H₂S**/*** Carbon Monoxide+Hydrogen Sulfide combo						€ 347.00
0S/S	Liquid O₂ Liquid Oxygen sensor (0 to 30% Vol., 0.1% Vol res.)						€ 300.00
0U/U	PH3-H Phosphine sensor (allows cross calibration)(0 to 20 ppm)						€ 403.00

Select one sensor for each of the five slots. Use the two digit code for Sensor 1 and 2. Use the one digit code for Sensors 3 - 5.
If the instrument is ordered with fewer than five sensors, a dummy sensor must be installed in the empty sensor slot(s).
Sensors cannot be installed in black marked slots.

PID sensors require a pump
H₂, H₂S HR and **ETO-C** sensors are only supported in the diffusion model

Notes:

* When ordering electrochemical sensors, please select the lower number first

** **ClO₂** and **H₂S, H₂S-HR** or **CO+H₂S** cannot be installed in the same instrument

*** **Cl₂** and **H₂S, H₂S-HR** or **CO+H₂S** cannot be installed in the same instrument

**** **NO** and **NH₃** sensors cannot be installed in the same instrument

Cl₂ and ClO₂ sensors have cross sensitivity but it is fail safe

Please refer to TN114 for cross interference between electrochemical sensors

F	Wireless Options	EUR
0	Non-Wireless	€ 0.00
3	Wireless, 868 MHz (active 868 MHz wireless modem), Europe	€ 178.00
C	Wireless (Mesh) data transmission, CU (869MHZ), Russia	€ 178.00
D	Wireless (Mesh) data transmission, ATEX (865.6+866.4MHZ), India	€ 178.00
W	Wi-Fi modem (built-in wireless modem)	€ 178.00
B	BLE	€ 178.00
P	P2P Communication capability	€ 883.00

G	Battery Options	EUR
1	Extended-duration (Li-ion) battery with alkaline adapter	€ 192.00
2	Rechargeable (Li-ion) battery with alkaline adapter	€ 144.00
3	Alkaline battery pack	€ 0.00

H	Kits and Accessories	EUR
0	Monitor only	€ 0.00
1	Accessories / Confined Space Kit (no gas or regulator)	€ 300.00
9	Accessories / Conf. Space + 4-gas (LEL/O₂/CO/H₂S) Cal. Kit (with 1 reg)	€ 769.00
D	Accessories / Conf. Space + 100 ppm Isobutylene Cal. Kit (with 1 reg)	€ 666.00
G	Access. / Conf. Space + 4-gas (LEL/O₂/CO/H₂S) + 100 ppm Iso Cal. Kit (2 reg's)	€ 1,140.00

MA	R	M-	AA	BB	C	D	E-	F	G	H

Example:

MultiRAE Lite-Pumped / 10.6 eV PID / LEL / H₂S / CO / O₂ / Li-ion / Non-Wireless/Unit with Accessories / Confined Space and Calibration (4-gas + Iso) Kits

MA	A	3-	A2	C1	1	2	E-	0	2	G

→ 0+665+581+175+175+175+175+0+144+1140 = EUR 3230

MultiRAE Lite-Diffusion / CO₂ / LEL / H2S / O₂ / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space Kit (no gas or regulator)

MA	A	6-	B8	C1	0	1	E-	3	2	1

→ 0+562+798+175+0+175+175+178+144+300 = EUR 2507

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

5.3 MultiRAE Monitors (Model PGM-6228)

MultiRAE advanced chemical detectors for up to 5 gases + VOC

Monitor-Only Configuration Includes:
• MultiRAE monitor with sensors, pump, battery and wireless options
 as specified, and protective rubber boot, swivel belt clip and filter installed
• Continuous datalogging (6 months for 5 sensors @ 1-minute intervals)
• Travel charger / PC communications adapter
• PC communication cable
• AC adapter
• Calibration adapter
• Alkaline battery adapter
• Toolkit with Hex tool and Phillips screwdriver
• PID sensor cap removal tool
• 3 spare external filters
• 6" flexi probe with inlet adapter
• Quick Start Guide
• ProRAE Studio II Configuration and Data Management Software
• Calibration and test certificate

Instrument ships in a hard transport case with custom foam that can also accommodate accessories and 2 calibration gas cylinders with 2 regulators (sold separately)

Optional Accessories / Confined Space and Calibration Kit Adds:
• Remote Sample Draw Kit (P/N: 008-3015-200)
  - 10" (26 cm) aluminum sample probe with replaceable filters,
  - 3 hydrophobic barrier filters,
  - 10' (3 m) self-coiling Teflon® tubing w/ Luer-style quick-connect fitting
• 4-gas mix (34L; 50% LEL, 18% O2, 10 ppm H2S, 50 ppm CO) + regulator
OR
• 100 ppm Isobutylene gas (34L) with regulator
OR
• 4-gas mix (34L; 50% LEL, 18% O2, 10 ppm H2S, 50 ppm CO) + regulator
• AND 100 ppm Isobutylene gas (34L) with regulator

Additional accessories, automatic calibration systems, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portables Pricing Guide.

Listed below are some common configurations of the MultiRAE Lite monitors. For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Part Number	Description	PID Sensor	CO2 NDIR Sensor	Pumped	Wireless	Li-ion Rechargeable	Accessories Kit	Calibration Kit	EUR	PG
MBA3-A1C112E-020	MultiRAE-Pumped / 10.6 eV PID / LEL / H₂S / CO / O₂ / Li-ion / Non-Wireless/Unit only	•		•		•			€ 2,484.00	A3
MBA3-A1C112E-02G	MultiRAE-Pumped / 10.6 eV PID / LEL / H₂S / CO / O₂ / Li-ion / Non-Wireless/Unit with Accessories / Confined Space and Calibration (4-gas + Iso) Kits	•		•		•	•	•	€ 3,427.00	A3
MBA3-A1C112E-320	MultiRAE-Pumped / 10.6 eV PID / LEL / H₂S / CO / O₂ / Li-ion / Wireless (868 MHz)/Unit only	•		•	•	•			€ 2,662.00	A3
MBA3-A1C112E-32G	MultiRAE-Pumped / 10.6 eV PID / LEL / H₂S / CO / O₂ / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space and Calibration (4-gas + Iso) Kits	•		•	•	•	•	•	€ 3,605.00	A3
MBA3-A1C1R3E-020	MultiRAE-Pumped / 10.6 eV PID / LEL / CO + H2S / SO2 / O2 / Li-ion / Non-Wireless/Unit only	•		•		•			€ 2,781.00	A3
MBA3-A1C1R3E-320	MultiRAE-Pumped / 10.6 eV PID / LEL / CO + H2S / SO2 / O2 / Li-ion / Wireless (868 MHz)/Unit only	•		•	•	•			€ 2,959.00	A3

5.4 MultiRAE Monitors Configuration Guide (Model PGM-6228)

MB	R	M-	AA	BB	C	D	E-	F	G	H
MultiRAE	Certification	Model (Pumped)	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Wireless Options	Battery Options	Kits and Accessories

R	Certification of Intrinsic Safety	EUR
A	ATEX / IECEx (Europe+India)	€ 0.00
H	Custom Union	€ 0.00

M		EUR
3	MultiRAE - Pumped (PGM-6228)	€ 1,025.00

Sensor Options	AA	BB	C	D	E		EUR
00/0 Dummy Sensor							€ 0.00
4R+ PID Sensors							
A1 PID, HR, 10.6 eV PID sensor (0.1 - 5,000 ppm; 0.1 ppm res.)							€ 615.00
A4 PID, 9.8eV (2,000ppm, 0.1ppm res.)							€ 697.00
Combustible NDIR Sensors							
B4 NDIR, % LEL sensor (0-100% LEL CH4)							€ 798.00
B5 NDIR, % Vol.* Combustible Sensor (0-100% Vol. CH4)							€ 798.00
CO_2 NDIR Sensors							
B8 CO_2 NDIR, HR Carbon dioxide NDIR sensor (up to 50,000 ppm)							€ 798.00
LEL Catalytic Bead Sensor							
C1 LEL Combustible catalytic bead sensor							€ 175.00
Electrochemical Sensors*							
01/1 H_2S**/*** Hydrogen Sulfide sensor (up to 100 ppm reading)							€ 175.00
02/2 CO Carbon Monoxide sensor (up to 500 ppm reading)							€ 175.00
03/3 SO_2 Sulfur Dioxide sensor							€ 300.00
04/4 NO**** Nitric Oxide sensor							€ 347.00
05/5 NO_2 Nitrogen Dioxide sensor							€ 347.00
06/6 Cl_2*** Chlorine sensor							€ 300.00
07/7 HCN Hydrogen Cyanide sensor							€ 403.00
08/8 NH_3**** Ammonia sensor							€ 403.00
09/9 PH_3 Phosphine sensor (up to 20 ppm reading)							€ 403.00
0A/A ClO_2** Chlorine Dioxide sensor							€ 403.00
0D/D CO, HR Carbon Monoxide sensor (up to 2,000 ppm reading)							€ 300.00
0E/E O_2 Oxygen sensor							€ 175.00
0F/F CO comp. H_2 Carbon Monoxide sensor (Hyroden-compensated)							€ 347.00
0H/H CH_3-SH Methyl Mercaptan sensor							€ 500.00
0J/J EtO-A Ethylene Oxide sensor (0 - 100 ppm; 1 ppm res.)							€ 403.00
0K/K EtO-B Ethylene Oxide sensor (0 - 10 ppm, 0.1 ppm res.)							€ 403.00
0Q/Q HCHO Formaldehyde sensor							€ 692.00
0R/R $CO+H_2S$**/*** Carbon Monoxide+Hydrogen Sulfide combo							€ 347.00
0S/S Liquid O_2 Liquid Oxygen sensor							€ 300.00
0U/U PH_3-H Phosphine sensor (allows cross calibration)							€ 403.00

* Note: *NDIR % Vol. combustible* sensor must be accompanied by the catalytic % LEL sensor (installs in slot BB)

Select one sensor for each of the five slots. Use the two digit code for Sensor 1 and 2. Use the one digit code for Sensors 3 - 5.
If the instrument is ordered with fewer than five sensors, a dummy sensor must be installed in the empty sensor slot(s).
Sensors cannot be installed in black marked slots.

Notes:

* When ordering electrochemical sensors, please select the lower number first

** ClO_2 and H_2S or $CO+H_2S$ cannot be installed in the same instrument

*** Cl_2 and H_2S or $CO+H_2S$ cannot be installed in the same instrument

Cl_2 and ClO_2 sensors have cross sensitivity but it is fail safe

Please refer to TN114 for cross interference between electrochemical sensors

F	Wireless Options	EUR
0	Non-wireless	€ 0.00
3	Wireless, 868 MHz (active 868 MHz wireless modem), Europe	€ 178.00
C	Wireless (Mesh) data transmission, CU (869MHZ), Russia	€ 178.00
D	Wireless (Mesh) data transmission, ATEX (865.6+866.4MHZ), India	€ 178.00
W	Wi-Fi modem (built-in wireless modem)	€ 178.00
B	BLE	€ 178.00
P	P2P Communication capability	€ 883.00

G	Battery Options	EUR
1	Extended-duration (Li-ion) battery with alkaline adapter	€ 192.00
2	Rechargeable (Li-ion) battery with alkaline adapter	€ 144.00
3	Alkaline battery pack	€ 0.00

H	Kits and Accessories	EUR
0	Monitor only	€ 0.00
9	Accessories / Conf. Space + 4-gas (LEL/O2/CO/H2S) Cal. Kit (with 1 regulator)	€ 577.00
4	Pelican case upgrade: Monitor only	€ 300.00
6	Pelican case upgrade: Access. / Conf. Space + 4-gas (LEL/O2/CO/H2S) Cal. Kit (w/1 reg.)	€ 874.00
A	Benzene kit (Hard case + consumable for Benzene specific measurement)	€ 300.00
D	Accessories / Conf. Space + 100 ppm Isobutylene Cal. Kit (with 1 regulator)	€ 471.00
G	Access. / Conf. Space + 4-gas (LEL/O2/CO/H2S) + 100 ppm Iso Cal. Kit (2 reg's)	€ 943.00
J	Pelican case upgrade: Access. / Conf. Space + 100ppm Isobutylene Cal. Kit (w/1 reg.)	€ 766.00
K	Pelican case upgr.: Access. / Conf. Sp.+4-gas (LEL/O2/CO/H2S) + 100ppm Iso Kit (2 reg's)	€ 1,240.00

MB	R	M-	AA	BB	C	D	E-	F	G	H

Example:

MultiRAE-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Non-Wireless/Unit only

MB	A	3-	A1	C1	1	2	E-	0	2	0

→ 0+1025+615+175+175+175+175+0+144+0 = EUR 2484

MultiRAE-Pumped / 10.6 eV PID / LEL / H_2S / CO / O_2 / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space and Calibration (4-gas + Iso) Kits

MB	A	3-	A1	C1	1	2	E-	3	2	G

→ 0+1025+615+175+175+175+175+178+144+943 = EUR 3605

5.5 MultiRAE Pro Monitors (Model PGM-6248)

MultiRAE Pro wireless portable multi-threat monitors for radiation and advanced chemical detection

Monitor-Only Configuration Includes:
• MultiRAE Pro monitor with sensors, pump, battery and wireless options
 as specified, and protective rubber boot, swivel belt clip and filter installed
• Continuous datalogging (6 months for 5 sensors @ 1-minute intervals)
• Travel charger / PC communications adapter
• Desktop charging / PC communications cradle
• PC communication cable
• AC adapter
• Calibration adapter
• Alkaline battery adapter
• Toolkit with Hex tool and Phillips screwdriver
• PID sensor cap removal tool
• PID zeroing filter (P/N: 008-3024-000)
• 3 spare external filters
• 6" flexi probe with inlet adapter
• Quick Start Guide
• ProRAE Studio II Configuration and Data Management Software
• Calibration and test certificate

Instrument ships in a "Pelican" case with custom foam that can also accommodate accessories and 2 calibration gas cylinders with 2 regulators (sold separately)

Optional Accessories / Confined Space and Calibration Kits Add:
• Remote Sample Draw Kit (P/N: 008-3015-200)
  - 10" (26 cm) aluminum sample probe with replaceable filters,
  - 3 hydrophobic barrier filters
  - 10' (3 m) self-coiling Teflon® tubing with Luer-style quick-connect filters
• 4-gas mix (34L; 50% LEL, 18% O_2, 10 ppm H_2S, 50 ppm CO, w/ regulator)
OR
• 10 ppm OR 100 ppm Isobutylene gas (34L) with regulator
OR
• 4-gas mix (34L; 50% LEL, 18% O_2, 10 ppm H_2S, 50 ppm CO, w/ regulator)
• AND 10 ppm OR 100 ppm Isobutylene gas (34L) with regulator
OR
• 4-gas mix (34L; 50% LEL, 18% O_2, 10 ppm H_2S, 50 ppm CO, w/ regulator)
• AND 10 ppm Isobutylene gas (34L) with regulator
• AND 100 ppm Isobutylene gas (34L) with regulator

Additional accessories, calibration systems, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portable Pricing Guide

Listed below are some common configurations of the MultiRAE Pro monitors. For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Part Number	Description	PID Sensor	CO2 NDIR Sensor	Pumped	Wireless	Li-ion Rechargeable	Accessories Kit	Calibration Kit	EUR	PG
MCA3-A3C1REZ-020	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / CO + H_2S / O_2 / Gamma / Li-ion / Non-Wireless/Unit only	•	•	•		•			€ 4,046.00	A3
MCA3-A3C1REZ-02F	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / CO + H_2S / O_2 / Gamma / Li-ion / Non-Wireless/Unit with Accessories / Confined Space and Calibration Kit (4-gas + 10 ppm Iso)	•	•	•		•	•	•	€ 4,989.00	A3
MCA3-A3C1REZ-02H	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / CO + H_2S / O_2 / Gamma / Li-ion / Non-Wireless/Unit with Access. / Conf. Space and Cal. Kit (4-gas + 10 ppm Iso + 100 ppm Iso)	•	•	•		•	•	•	€ 5,362.00	A3
MCA3-A3C1REZ-320	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / CO + H_2S / O_2 / Gamma / Li-ion / Wireless (868 MHz)/Unit only	•	•	•	•	•			€ 4,224.00	A3
MCA3-A3C1REZ-32F	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / CO + H_2S / O_2 / Gamma / Li-ion / Wireless (868 MHz)/Unit with Accessories / Confined Space and Calibration Kit (4-gas + 10 ppm Iso)	•	•	•	•	•	•	•	€ 5,167.00	A3
MCA3-A3C1REZ-32H	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / CO + H_2S / O_2 / Gamma / Li-ion / Wireless (868 MHz)/Unit with Access. / Conf. Space and Cal. Kit (4-gas + 10 ppm Iso + 100 ppm Iso)	•	•	•	•	•	•	•	€ 5,540.00	A3
MCA3-A3C168E-020	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / Cl_2 / NH_3 / O_2 / Li-ion / Non-Wireless/Unit only	•		•		•			€ 3,412.00	A3
MCA3-A3C168E-320	MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / Cl_2 / NH_3 / O_2 / Li-ion / Wireless (868 MHz)/Unit only	•		•	•	•			€ 3,590.00	A3

5.6 MultiRAE Pro Monitors Configuration Guide (Model PGM-6248)

MC	R	M-	AA	BB	C	D	E-	F	G	H
MultiRAE Pro	Certification	Model (Pumped)	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Wireless Options	Battery Options	Kits and Accessories

R	Certification of Intrinsic Safety	EUR
A	ATEX / IECEx (Europe+India)	€ 0.00
H	Custom Union	€ 0.00

M		EUR
3	MultiRAE Pro - Pumped (PGM-6248)	€ 1,538.00

Sensor Options	AA	BB	C	D	E		EUR
00/0 Dummy Sensor							€ 0.00
4R+ PID Sensors							
A1 PID, HR, 10.6 eV PID sensor (0.1 - 5,000 ppm; 0.1 ppm res.)							€ 615.00
A3 PID, HR, 10.6 eV PID ppb sensor (10 ppb - 2,000 ppm; 10 ppb res.)							€ 677.00
A4 PID, 9.8eV (2,000 ppm; 0.1 ppm res.)							€ 697.00
Combustible NDIR Sensors							
B4 NDIR, % LEL Combustible NDIR sensor (0-100% LEL CH4)							€ 798.00
B5 NDIR, % Vol.* Combustible NDIR sensor (0-100% Vol. CH4)							€ 798.00
CO₂ NDIR Sensors							
B8 CO₂ NDIR, HR Carbon dioxide NDIR sensor (up to 50,000 ppm)							€ 798.00
LEL Catalytic Bead Sensor							
C1 LEL Combustible catalytic bead sensor							€ 175.00
Electrochemical Sensors*							
01/1 H₂S**/*** Hydrogen Sulfide sensor (up to 100 ppm reading)							€ 175.00
02/2 CO Carbon Monoxide sensor (up to 500 ppm reading)							€ 175.00
03/3 SO₂ Sulfur Dioxide sensor							€ 300.00
04/4 NO**** Nitric Oxide sensor							€ 347.00
05/5 NO₂ Nitrogen Dioxide sensor							€ 347.00
06/6 Cl₂*** Chlorine sensor							€ 300.00
07/7 HCN Hydrogen Cyanide sensor							€ 403.00
08/8 NH₃**** Ammonia sensor							€ 403.00
09/9 PH₃ Phosphine sensor (up to 20 ppm reading)							€ 403.00
0A/A ClO₂** Chlorine Dioxide sensor							€ 403.00
0D/D CO, HR Carbon Monoxide sensor (up to 2,000 ppm reading)							€ 300.00
0E/E O₂ Oxygen sensor							€ 175.00
0F/F CO comp. H₂ Carbon Monoxide sensor (Hyroden-compensated)							€ 347.00
0H/H CH₃-SH Methyl Mercaptan sensor							€ 500.00
0J/J EtO-A Ethylene Oxide sensor (0 - 100 ppm; 1 ppm res.)							€ 403.00
0K/K EtO-B Ethylene Oxide sensor (0 - 10 ppm, 0.1 ppm res.)							€ 403.00
0Q/Q HCHO Formaldehyde sensor							€ 692.00
0R/R CO+H₂S**/*** Carbon Monoxide+Hydrogen Sulfide combo							€ 347.00
0S/S Liq. O₂ Liquid Oxygen sensor							€ 300.00
0U/U PH₃-H Phosphine sensor (allows cross calibration)							€ 403.00
Gamma Radiation Sensor							
Z Gamma Radiation sensor							€ 990.00

*Note: NDIR % Vol. combustible sensor must be accompanied by the catalytic % LEL sensor (installs in slot BB)

Select one sensor for each of the five slots. Use the two digit code for Sensor 1 and 2. Use the one digit code for Sensors 3 - 5.
If the instrument is ordered with fewer than five sensors, a dummy sensor must be installed in the empty sensor slot(s).
Sensors cannot be installed in black marked slots.

Notes:

* When ordering electrochemical sensors, please select the lower number first

** ClO₂ and H₂S or CO+H₂S cannot be installed in the same instrument

*** Cl₂ and H₂S or CO+H₂S cannot be installed in the same instrument

Cl₂ and ClO₂ sensors have cross sensitivity but it is fail safe

Please refer to TN114 for cross interference between electrochemical sensors

F	Wireless Options	EUR
0	Non-wireless	€ 0.00
3	Wireless, 868 MHz (active 868 MHz wireless modem), Europe	€ 178.00
C	Wireless (Mesh) data transmission, CU (869MHZ), Russia	€ 178.00
D	Wireless (Mesh) data transmission, ATEX (865.6+866.4MHZ), India	€ 178.00
W	Wi-Fi modem (built-in wireless modem)	€ 178.00
B	BLE	€ 178.00
P	P2P Communication capability	€ 1,581.00

G	Battery Options	EUR
1	Extended-duration (Li-ion) battery with alkaline adapter	€ 192.00
2	Rechargeable (Li-ion) battery with alkaline adapter	€ 144.00
3	Alkaline battery pack	€ 0.00

H	Kits and Accessories	EUR
0	Monitor only	€ 0.00
9	Accessories / Conf. Space + 4-gas (LEL/O2/CO/H2S) Cal. Kit (with 1 regulator)	€ 577.00
A	Benzene kit (Hard case + consumable for Benzene specific measurement)	€ 300.00
C	Accessories / Conf. Space + 10 ppm Isobutylene Cal. Kit (with 1 regulator)	€ 471.00
D	Accessories / Conf. Space + 100 ppm Isobutylene Cal. Kit (with 1 regulator)	€ 471.00
F	Access. / Conf. Space + 4-gas (LEL/O2/CO/H2S) + 10 ppm Iso Cal. Kit (2 reg's)	€ 943.00
G	Access. / Conf. Space + 4-gas (LEL/O2/CO/H2S) + 100 ppm Iso Cal. Kit (2 reg's)	€ 943.00
H	Acc. / Conf. Sp. + 4-gas (LEL/O2/CO/H2S)+10 ppm Iso+100 ppm Iso Kit (3 reg's)	€ 1,316.00

MC	R	M-	AA	BB	C	D	E-	F	G	H

Example:

MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / CO + H₂S / O₂ / Gamma / Li-ion / Non-Wireless/Unit with Accessories / Confined Space and Calibration Kit (4-gas + 10 ppm Iso)

MC	A	3-	A3	C1	R	E	Z-	0	2	F

→ 0+1538+677+175+347+175+175+990+0+144+943 = EUR 4989

MultiRAE Pro-Pumped / 10.6 eV ppb PID / LEL / Cl₂ / NH₃ / O₂ / Li-ion / Wireless (868 MHz)/Unit only

MC	A	3-	A3	C1	6	8	E-	3	2	0

→ 0+1538+677+175+300+403+175+178+144+0 = EUR 3590

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

5.7 MultiRAE Sensors, Accessories, and Replacement Parts

MultiRAE Lite, MultiRAE and MultiRAE Pro P2P License

Part Number	Description	Compatible Instruments	EUR	PG
000-5007-002	P2P License for MultiRAE Lite and MultiRAE (Does not include charger or cable)-to be bought separately (cables M01-2066-000 + M01-3021-100)	All MultiRAE Models	€ 882.00	D1
000-5007-003	P2P License for MultiRAE Pro (Does not include charger or cable)-to be bought separately (cables M01-2066-000 + M01-3021-100)	All MultiRAE Models	€ 1,576.00	D1

MultiRAE Replacement Sensors - Dummy Sensors

Part Number	Description	Sensor	Compatible Instruments	EUR	PG
C03-2028-000	4R+ Dummy sensor	Dummy sensor (required if fewer than 5 sensors installed)	All MultiRAE Models	€ 11.00	D2

MultiRAE Replacement Sensors - PID (Photoionization Detector) Sensors

Part Number	Description	Sensor	Compatible Instruments	EUR	PG
C03-0912-001	4R+ PID ppb sensor (10 ppb - 2,000 ppm; 10 ppb res.; 10.6 eV lamp)	PID, ppb, 10.6 eV	MultiRAE Pro	€ 677.00	D2
C03-0912-002	PID sensor (0.1 - 5,000 ppm; 0.1 ppm res.; 10.6 eV lamp)	PID, HR, 10.6 eV	MultiRAE or MultiRAE Pro	€ 615.00	D2
C03-0912-010	PID sensor (0.1 - 2,000 ppm; 50 ppb res.; 9.8 eV lamp)	PID, 9.8 eV	MultiRAE Benzene	€ 697.00	D2
C03-0912-003	PID sensor (1 - 1,000 ppm; 1 ppm res.; 10.6 eV lamp)	PID, LR, 10.6 eV	MultiRAE Lite Pumped	€ 581.00	D2

MultiRAE Replacement Sensors - Electrochemical Toxic and Oxygen Sensors

Part Number	Description	Sensor	Compatible Instruments	EUR	PG
C03-0950-000	Ammonia (NH_3) sensor (0-100 ppm; 1 ppm res.)	NH_3	All MultiRAE Models	€ 392.00	D2
C03-0903-000	Carbon Monoxide (CO) extended-range sensor (0-2,000 ppm; 10 ppm res.)	CO, HR	All MultiRAE Models	€ 281.00	D2
C03-0906-000	Carbon Monoxide (CO) sensor (0-500 ppm; 1 ppm res.)	CO	All MultiRAE Models	€ 175.00	D2
C03-0979-000	Carbon Monoxide (CO) sensor (H_2-compensated) (0-2,000 ppm; 10 ppm res.)	CO comp. H_2	All MultiRAE Models	€ 326.00	D2
C03-0913-000	Carbon Monoxide+Hydrogen Sulfide (CO+H2S) combo	CO+H_2S	All MultiRAE Models	€ 347.00	D2
C03-0978-000	Chlorine (Cl_2) sensor (0-50 ppm; 0.1 ppm res.)	Cl_2	All MultiRAE Models	€ 281.00	D2
C03-0956-000	Chlorine Dioxide (ClO_2) sensor (0-1 ppm; 0.03 ppm res.)	ClO_2	All MultiRAE Models	€ 382.00	D2
C03-0954-000	Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.)	EtO-A	All MultiRAE Models	€ 281.00	D2
C03-0922-100	Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.)	EtO-B	All MultiRAE Models	€ 281.00	D2
C03-0923-100	Ethylene Oxide (EtO-C) extended-range sensor (0 - 500 ppm; 10 ppm res.)	EtO-C, HR	MultiRAE Diffusion Models	€ 382.00	D2
C03-0982-000	Formaldehyde (HCHO) sensor (0-10 ppm; 0.05 ppm res.)	HCHO	All MultiRAE Models	€ 692.00	D2
C03-0981-000	Hydrogen (H_2) sensor (0-1,000 ppm; 10 ppm res.)	H_2	MultiRAE Diffusion Models	€ 382.00	D2
C03-0949-000	Hydrogen Cyanide (HCN) sensor (0-50 ppm; 0.5 ppm res.)	HCN	All MultiRAE Models	€ 382.00	D2
C03-0904-000	Hydrogen Sulfide (H_2S) extended-range sensor (up to 1,000 ppm reading)	H_2S, HR	MultiRAE Diffusion Models	€ 175.00	D2
C03-0907-001	Hydrogen Sulfide (H_2S) sensor (0-100 ppm; 0.1 ppm res.)	H_2S	All MultiRAE Models	€ 175.00	D2
C03-0980-000	Methyl Mercaptan (CH_3-SH) sensor (0-10 ppm; 0.1 ppm res.)	CH_3-SH	All MultiRAE Models	€ 500.00	D2
C03-0974-000	Nitric Oxide (NO) sensor (0-250 ppm; 0.5 ppm res.)	NO	All MultiRAE Models	€ 326.00	D2
C03-0975-000	Nitrogen Dioxide (NO_2) sensor (0-20 ppm; 0.1 ppm res.)	NO_2	All MultiRAE Models	€ 326.00	D2
C03-0942-000	Oxygen (O_2) sensor (0-30% vol.; 0.1% vol. res.)	O_2	All MultiRAE Models	€ 175.00	D2
C03-0908-001	Liquid Oxygen (O_2) sensor	O_2	All MultiRAE Models	€ 281.00	D2
C03-0976-000	Phosphine (PH_3) sensor (0-20 ppm; 0.1 ppm res.)	PH_3	All MultiRAE Models	€ 382.00	D2
C03-0976-100	Phosphine (PH_3) sensor allow cross calibration using H2S gas (0-20ppm, Res. 0.1ppm)	PH_3-H	All MultiRAE Models	€ 403.00	D2
C03-0973-100	Sulfur Dioxide (SO_2) sensor (0-20 ppm; 0.1 ppm res.)	SO_2	All MultiRAE Models	€ 281.00	D2

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

MultiRAE Replacement Sensors - Combustible Sensors

Part Number	Description	Sensor	Compatible Instruments	EUR	PG
C03-0911-000	Combustible catalytic bead % LEL sensor	LEL	All MultiRAE Models	€ 175.00	D2
C03-0962-000	Combustible NDIR sensor (0-100% LEL CH4)	CH_4 NDIR, % LEL	All MultiRAE Models	€ 798.00	D2
C03-0965-000	Combustible NDIR sensor (0-100% Vol C3H8)	C_3H_8 NDIR, % Vol.	MultiRAE MX	€ 798.00	D2
C03-0963-000	Combustible NDIR sensor (0-100% Vol. CH4)	CH_4 NDIR, % Vol.	All MultiRAE Models. Requires the catalytic % LEL sensor in the same instrument	€ 798.00	D2

MultiRAE Replacement Sensors - Carbon Dioxide (CO2) Sensor

Part Number	Description	Sensor	Compatible Instruments	EUR	PG
C03-0961-000	Carbon dioxide (CO_2) NDIR sensor (up to 50,000 ppm)	CO_2 NDIR, HR	All MultiRAE Models	€ 751.00	D2

MultiRAE Replacement Sensors - Gamma Radiation Sensor

Part Number	Description	Sensor	Compatible Instruments	EUR	PG
C03-0910-000	Gamma radiation sensor	Gamma	MultiRAE Pro	€ 990.00	D2

MultiRAE Replacement Sensors - Power, PC Communication and Automotive Accessories

Part Number	Description	Compatible Instruments	EUR	PG
M01-3053-000	Rechargeable Li-ion battery	All MultiRAE Models	€ 214.00	D2
M01-3055-000	Extended duration Li-ion battery	All MultiRAE Models	€ 313.00	D2
M01-3054-000	Alkaline battery adapter for 4 AA-sized batteries	All MultiRAE Models	€ 72.00	D1
M01-3025-000	External Battery charger (no power adapter)	All MultiRAE Models	€ 126.00	D1
020-2480-000	One-to-five Power Cable**	All MultiRAE Models	€ 56.00	D1
M01-2110-000	Holder for External Battery charger	All MultiRAE Models	€ 16.00	D1
M01-3021-000	RAE Travel Charger / PC Communications adapter (AC adapter or PC Communication cable P/N 410-0203-000 NOT included) for MultiRAE Series	All MultiRAE Models except MX	€ 93.00	D1
M01-3021-200	Travel charger / PC communications adapter (AC adapter or PC cable NOT included)	MultiRAE MX	€ 93.00	D1
500-0036-101	AC adapter with international prong kit (for desktop cradle or travel charger)	All MultiRAE Models except MX	€ 52.00	D1
500-0150-000	AC adapter with international prong kit (for desktop cradle or travel charger)	MultiRAE MX	€ 52.00	D1
410-0203-000	PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black	All MultiRAE Models	€ 30.00	D1
M01-0306-000	Desktop Cradle (AC adapter or PC cable not included): charges the battery, simplifies PC communications, performs PID lamp auto-cleaning	All MultiRAE Models	€ 313.00	D1
M01-0307-000	Truck Mount (NFPA requirement-compliant; requires MultiRAE Desktop Cradle, part number: M01-0306-000	All MultiRAE Models	€ 113.00	D1
M01-0308-000	Complete MultiRAE Vehicle Mounting Solution (includes Desktop Cradle and Truck Mount (AC adapter or PC cable not included))	All MultiRAE Models	€ 363.00	D1
M01-3021-100	Travel charger / PC communications adapter for P2P (AC adapter or PC cable NOT included)	All MultiRAE Models	€ 85.00	D1
M01-2066-000	PC communications cable (P2P)	All MultiRAE Models (with P2P capability)	€ 29.00	D1
003-3004-000	Automotive charging adapter 12 VDC	All MultiRAE Models	€ 39.00	D1

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

MultiRAE Replacement Sensors - Calibration and Maintenance Accessories

Part Number	Description	Compatible Instruments	EUR	PG
008-3022-010	External Water trap filter 25mm without Adapter (pack of 10) for pumped model	ALL	€ 29.00	D1
M01-3210-000	Filter and Sensor Compartment O-Ring Kit - MultiRAE Lite Diffusion (pack of 3)	MultiRAE Diffusion Models	€ 32.00	D2
M01-0312-000	Benzene Separation Tubes Cartridges (6 cartridges/box)	MultiRAE Benzene	€ 300.00	D2
008-3024-000	External PID zeroing filter	MultiRAE with PID	€ 72.00	D1
M01-3011-000	Calibration adapter - MultiRAE Pumped models	MultiRAE Pumped Models	€ 26.00	D1
M01-3011-003	Calibration adapter (pack of 3) - MultiRAE Pumped models	MultiRAE Pumped Models	€ 32.00	D1
M01-3010-000	Calibration adapter - MultiRAE Lite Diffusion	MultiRAE Diffusion Models	€ 26.00	D1
M01-3010-003	Calibration adapter (pack of 3) - MultiRAE Lite Diffusion	MultiRAE Diffusion Models	€ 32.00	D1
002-3022-005	External filters (pack of 5) with 1 metal connector (45 mm, 0.45 mm)	MultiRAE Pumped Models	€ 40.00	D2
G02-0306-003	Combined instrument top cap / PID sensor cover removal tool - ToxiRAE Pro PID & MultiRAE Family (Pack of 3)	MultiRAE with PID	€ 33.00	D1
G02-0304-000	PID 10.6eV sensor maintenance kit (includes sensor cap, electrode panel, and cap removal tool) (Used with ToxiRAE Pro family, MultiRAE family and AreaRAE Pro and Plus)	ToxiRAE Pro, MuliRAE Family and AreaRAE Pro and Plus	€ 28.00	D1
M01-3007-003	Gas inlet adapter (pack of 3)	MultiRAE Pumped Models	€ 32.00	D1
M01-3224-000	Gas inlet connector for Flexible probe	MultiRAE Pumped Models	€ 14.00	D1
400-0073-020	Male Luer connector (pack of 20)	MultiRAE Pumped Models	€ 32.00	D1
023-3012-000	6" flexible probe (Requires M01-3224-000 to be used with MultiRAE)	MultiRAE Pumped Models	€ 72.00	D1
M01-2050-010	Charcoal VOC filters for CO Sensor (pack of 10)	All MultiRAE Models	€ 32.00	D1
020-3419-000	TYGON tubing,6 Feet (2 meters) with Connector	All MultiRAE Models	€ 19.00	D1

MultiRAE Replacement Sensors - Carrying and Protective Accessories

Part Number	Description	Compatible Instruments	EUR	PG
M01-3200-000	MultiRAE holster case (pumped models) with shoulder strap	MultiRAE Pumped Models	€ 142.00	D1
M01-3201-000	MultiRAE holster case (diffusion models) with 4-point chest harness / shoulder strap	MultiRAE Diffusion Models	€ 142.00	D1
M01-2087-100	Protective rubber boot – orange (pumped units; includes two Hex screws)	MultiRAE Pumped Models	€ 81.00	D1
M01-2088-100	Protective rubber boot – blue (pumped units; includes two Hex screws)	MultiRAE Pumped Models	€ 81.00	D1
M01-2089-100	Protective rubber boot – blue (diffusion units; includes two Hex screws)	MultiRAE Diffusion Models	€ 81.00	D1
M01-2081-100	Protective rubber boot – yellow (diffusion units; includes two Hex screws)	MultiRAE Diffusion Models	€ 81.00	D1
M01-2080-100	Protective rubber boot – yellow (pumped units; includes two Hex screws)	MultiRAE Pumped Models	€ 81.00	D1
M01-2082-100	Protective rubber boot – black (pumped units; includes two Hex screws)	MultiRAE Pumped Models	€ 81.00	D1
M01-2086-100	Protective rubber boot – red (pumped units; includes two Hex screws)	MultiRAE Pumped Models	€ 81.00	D1
M01-2049-100	Swivel belt clip (includes screw and spring washer)	MultiRAE Pumped Models	€ 32.00	D1
M01-3202-000	"Pelican" carrying case with custom foam to accommodate the instrument + desktop cradle + Accessories and Calibration Kits with 2 gas cylinders and 2 regulators (accessories, cradle, instrument, gas and regulators not included)	All MultiRAE Models	€ 525.00	D1
M01-3203-000	Hard carrying case with custom foam to accommodate the instrument + desktop cradle + Accessories and Calibration Kits with 2 gas cylinders and 2 regulators (accessories, cradle, instrument, gas and regulators not included)	All MultiRAE Models	€ 214.00	D1

5. MultiRAE Multi-Threat Monitors (PGM-62X8 Series)

M01-2050-010
Charcoal VOC filters for CO Sensor (pack of 10)

M01-3007-003
Gas inlet adapter (pack of 3)

M01-3224-000
Gas inlet connector for Flexible probe

008-3022-010
External Water trap filter 25mm without Adapter (pack of 10) for pumped model

M01-3011-003
Calibration adapter (pack of 3) - MultiRAE Pumped models

G02-0306-003
Combined instrument top cap / PID sensor cover removal tool - ToxiRAE Pro PID & MultiRAE Family (Pack of 3)

G02-0304-000
PID 10.6eV sensor maintenance kit (includes sensor cap, electrode panel, and cap removal tool) (Used with ToxiRAE Pro family, MultiRAE family and AreaRAE

023-3012-000
6" flexible probe (Requires M01-3224-000 to be used with MultiRAE)

M01-3021-000
RAE Travel Charger / PC Communications adapter (AC adapter or PC Communication cable P/N 410-0203-000 NOT included) for MultiRAE Series

410-0203-000
PC communications cable (USB 2.0 Type A (Male) To Mini-B (Male) 1meter Black

M01-3053-000
Rechargeable Li-ion battery

M01-3025-000
External Battery charger (no power adapter)

400-0073-020
Male Luer connector (pack of 20)

M01-2110-000
Holder for External Battery charger

003-3004-000
Automotive charging adapter 12 VDC

M01-3200-000
MultiRAE holster case (pumped models) with shoulder strap

M01-0307-000
Truck Mount (NFPA requirement-compliant; requires MultiRAE Desktop Cradle, part number: M01-0306-000

M01-0306-000
Desktop Cradle (AC adapter or PC cable not included): charges the battery, simplifies PC communications, performs PID lamp auto-cleaning

M01-3010-003
Calibration adapter (pack of 3) - MultiRAE Lite Diffusion

M01-0312-000
Benzene Separation Tubes Cartridges (6 cartridges/box)

6. Photoionization (PID) Detectors

6.1 MiniRAE Lite+ (PGM-7300 or PGM-7350 Series)

The rugged MiniRAE Lite+ is a basic pumped handheld volatile organic compound (VOC) monitor. Its Photo Ionization Detector (PID) covers the range of 0.1 ppm to 5,000 ppm making it an ideal instrument for applications such as environmental site surveying.

Monitor-only configuration includes:
- MiniRAE Lite+ Monitor
- 10.6 eV lamp
- Flex-I-Probe
- External filter
- Green rubber boot
- Alkaline battery adapter
- Lamp cleaning and tool kit (Note: The recommended cleaning fluid Isopropanol is not included)
- Li-ion battery with universal AC/DC adapter and international plug kit
- Travel download charger
- Soft leather carrying case

Accessories Kit adds:
- Hard transport case with pre-cut foam
- 5 porous metal filters and O-rings
- Organic vapor zeroing kit
- Gas outlet port adapter and tubing

Part Number	Description	Li-Ion / Universal charger	Accessories Kit	EUR PG
059-A110-000	MiniRAE Lite+, No Certification of Intrinsic Safety, PID 10.6 eV lamp 1/2″, Rechargeable Li-Ion battery, universal adapter, travel charger - NOT ATEX CERTIFIED!, Monitor only	•		€ 2,511.00 B1
059-A110-300	MiniRAE Lite+, No Certification of Intrinsic Safety, PID 10.6 eV lamp 1/2″, Rechargeable Li-Ion battery, universal adapter, travel charger - NOT ATEX CERTIFIED!, Accessories Kit (no gas or regulator)	•	•	€ 2,878.00 B1
059-A12E-500	MiniRAE Lite+, PID 10.6 eV Lamp 1/2", Rechargable Li-ion battery, universal adapter, travel charger - BLE ATEX Certification, Accessories Kit (no gas, with regulator), EU	•	•	€ 3,705.00 B1

6.2 MiniRAE Lite+ Monitors Configurator (PGM-7300 or PGM-7350 Series)

059-A	A	B	C-	D	00
MiniRAE Lite+	Lamp	Batteries, Chargers	Certification	Kits	Always

					EUR
Base Unit					**EUR**
Basic Kit: Must select option from each group to determine total cost					€ 2,283.00
	A	**Lamps**			**EUR**
	1	PID 10.6 eV lamp 1/2″			€ 0.00
		B	**Batteries, Chargers**		**EUR**
		1	Recharg. Li-Ion battery, universal adapter, travel charger - **NOT ATEX CERTIFIED!**		€ 228.00
		2	Recharg. Li-Ion battery, universal adapter, travel charger - **ATEX-certified!**		€ 287.00
			C	**Certification**	**EUR**
			0	No Certification of Intrinsic Safety. **For use only in NON-hazardous atmospheres!**	€ 0.00
			6	ATEX Certification of Intrinsic Safety	€ 287.00
			E	BLE ATEX Certification	€ 552.00
			N	BLE No certification	€ 265.00
			H	None Wireless CU	€ 287.00
				D **Kits**	**EUR**
				0 Monitor only	€ 0.00
				3 Accessories Kit (no gas or regulator)	€ 367.00
				5 Accessories Kit (no gas, with regulator), EU	€ 583.00

059-A	A	B	C-	D	0	0

> Non ATEX Cerified battery should **NOT** be installed in ATEX instrument.
>
> To configure an ATEX-certified MiniRAE Lite+, please select option 6 or E for "C: Certification" **AND** option 2 under "B: Batteries,

Example:

MiniRAE Lite+, No Certification of Intrinsic Safety, PID 10.6 eV lamp 1/2″, Rechargeable Li-Ion battery, universal adapter, travel charger - NOT ATEX CERTIFIED!, Monitor only

059-A	1	1	0-	0	0	0

→ 2283+0+228+0+0=EUR 2511

MiniRAE Lite+, PID 10.6 eV Lamp 1/2", Rechargable Li-ion battery, universal adapter, travel charger - BLE ATEX Certification, Accessories Kit (no gas, with regulator), EU

059-A	1	2	E-	5	0	0

→ 2283+0+287+552+583=EUR 3705

6. Photoionization (PID) Detectors

6.3 MiniRAE 3000+ Monitor (Model PGM-7320)

The rugged MiniRAE 3000+ is the most advanced pumped handheld volatile organic compound (VOC) monitor on the market. Its Photoionization Detector's (PID) extended range of 0 to15,000 ppm makes it an ideal instrument for applications from industrial to HazMat / Homeland Security.

Monitor only includes:
• MiniRAE 3000+ Monitor, Model PGM-7320
• Wireless communication in built, as specified
• Travel download charger
• PID lamp, as specified
• Flex-I-Probe
• External filter
• Yellow rubber boot
• Alkaline battery adapter
• Lamp cleaning and Tool kit
• Li-Ion Battery with universal AC/DC adapter and international plug kit
• Soft leather carrying case

Monitor with Accessories Kit adds:
• Hard transport case with pre-cut foam
• Charging/download cradle (instead of travel charger)
• 5 Porous metal filters and O-rings
• Organic vapor zeroing kit
• Gas outlet port adapter and tubing

Part Number	Description	Li-Ion / Universal charger	Accessories Kit	EUR PG
059-B116-000	MiniRAE 3000+, Non Wireless, ATEX/IECEx, PID 10.6eV, Rechargeable Li-Ion Battery, Univeral Adapter, Monitor only	•		€ 4,383.00 B1
059-B11E-500	MiniRAE 3000+, ATEX/IECEx, PID 10.6 eV 1/2", Rechargeable Li-ion Battery, Universal Adapter, BLE Data Transmission, Accessories Kit (no gas with regulator), EU	•	•	€ 5,231.00 B1

6. Photoionization (PID) Detectors

6.4 MiniRAE 3000+ Monitors Configurator (PGM-7320)

059-B	A	B	C-	D	00
MiniRAE 3000+	Lamp	Batteries, Chargers	Wireless, Certification	Kits	Always

Base Unit					EUR
Basic Kit: Must select option from each group to determine total cost					**€ 4,264.00**
A	**Lamps**				**EUR**
1	PID 10.6 eV lamp 1/2″				€ 0.00
2	PID 11.7 eV lamp 1/2″				€ 119.00
3	PID 9.8 eV lamp 1/2″				€ 66.00
	B	**Batteries, Chargers**			**EUR**
	1	Rechargeable Li-Ion battery, universal adapter			€ 119.00
		C	**Wireless, certification**		**EUR**
		6	No Wireless, ATEX/IECEx		€ 0.00
		7	Wireless (Bluetooth) data transmission, ATEX/IECEX (2.4 GHz)		€ 345.00
		8	Wireless (Mesh) data transmission, ATEX/IECEX (868MHz)		€ 345.00
		A	Wireless (Mesh) data transmission, CU (869MHZ), Russia		€ 345.00
		B	Wireless (Mesh) data transmission, ATEX/IECEX (865.6MHz & 866.4MHZ), India		€ 345.00
		E	Wireless (BLE) data transmission, ATEX/IECEx		€ 265.00
		F	Wireless (BLE) data transmission, CU		€ 265.00
		H	No Wireless, CU		€ 0.00
			D	**Kits**	**EUR**
			0	Monitor only	€ 0.00
			3	Accessories Kit (no gas or regulator)	€ 367.00
			5	Accessories Kit (no gas, with regulator), EU	€ 583.00

059-B	A	B	C-	D	0	0

Example:

MiniRAE 3000+, Non Wireless, ATEX/IECEx, PID 10.6eV, Rechargeable Li-Ion Battery, Univeral Adapter, Monitor only

059-B	1	1	6-	0	0	0

→ 4264+0+119+0+0=EUR 4383

MiniRAE 3000+, ATEX/IECEx, PID 10.6 eV 1/2", Rechargeable Li-ion Battery, Universal Adapter, BLE Data Transmission, Accessories Kit (no gas with regulator), EU

059-B	1	1	E-	5	0	0

→ 4264+0+119+265+583=EUR 5231

6. Photoionization (PID) Detectors

6.5 UltraRAE 3000+ Monitor (Model PGM-7360)

The rugged UltraRAE 3000+ is the most advanced pumped handheld volatile specific organic compound (VOC) on the market. Its Photoionization Detector's (PID) extended range of 0-10,000 ppm and RAE-Sep™ tube technology makes it an ideal instrument for applications from environmental site surveying to Industrial Hygiene.

Monitor only includes:
• UltraRAE 3000+ Monitor, Model PGM-7360
• Wireless communication in built, as specified
• Travel download charger
• PID lamp and RAE-Sep™ Tubes, as specified
• Flex-I-Probe and short probe
• External filter
• Red rubber boot
• Alkaline battery adapter
• Lamp cleaning and Tool kit
• Li-Ion Battery with universal AC/DC adapter and international plug kit, if specified
• Soft leather carrying case

Monitor with Accessories Kit adds:
• Hard transport case with pre-cut foam
• Charging/download cradle (instead of travel charger)
• 5 Porous metal filters and O-rings
• Gas outlet port adapter and tubing
• Organic Vapor Zeroing Kit

Part Number	Description	Li-Ion / Universal charger	Accessories Kit	EUR PG
059-D316-000	UltraRAE 3000+, Non-Wireless, ATEX/IECEx, PID 9.8 eV lamp 1/2″ with 10 RAE-Sep™ Tubes for Benzene, Rechargeable Li-Ion Battery, Universal Adapter, Monitor only	•		€ 5,592.00 B1
059-D31E-300	UltraRAE 3000+, ATEX/IECEx, PID 9.8 eV lamp 1/2″ with 10 RAE-Sep™ Tubes for Benzene , BLE Data Transmission, Rechargable Li-ion Battery, Accessories Kit	•	•	€ 6,224.00 B1

6. Photoionization (PID) Detectors

6.6 UltraRAE 3000+ Monitors Configurator (PGM-7360)

059-D	A	B	C-	D	00
UltraRAE 3000+	Lamp	Batteries, Chargers	Wireless, Certification	Kits	Always

Base Unit				EUR
Basic Kit: Must select option from each group to determine total cost				**€ 5,407.00**
A	**Lamps**			**EUR**
1	PID 10.6 eV lamp 1/2″ for Total VOC mode only			€ 0.00
2	PID 11.7 eV lamp 1/2″ for Total VOC mode only			€ 119.00
3	PID 9.8 eV lamp 1/2″ with 10 RAE-Sep™ Tubes for Benzene			€ 66.00
4	PID 9.8 eV lamp 1/2″ with 10 RAE-Sep™ Tubes for Butadiene			€ 66.00
	B	**Batteries, Chargers**		**EUR**
	1	Rechargeable Li-Ion battery, universal adapter		€ 119.00
		C	**Wireless, certification**	**EUR**
		6	No Wireless, ATEX/IECEx	€ 0.00
		7	Wireless (Bluetooth) data transmission, ATEX/IECEX (2.4 GHz)	€ 345.00
		8	Wireless (Mesh) data transmission, ATEX/IECEX (868MHz)	€ 345.00
		A	Wireless (Mesh) data transmission, CU (869MHZ), Russia	€ 345.00
		B	Wireless (Mesh) data transmission, ATEX/IECEX (865.6MHz & 866.4MHz), India	€ 345.00
		E	Wireless (BLE) data transmission, ATEX/IECEx	€ 265.00
		F	Wireless (BLE) data transmission, CU	€ 265.00
		H	No Wireless, CU	€ 0.00
			D	**Kits**	**EUR**
			0	Monitor only	€ 0.00
			3	Accessories Kit (no gas or regulator)	€ 367.00

059-D	A	B	C-	D	0	0

Example:

UltraRAE 3000+, Non-Wireless, ATEX/IECEx, PID 9.8 eV lamp 1/2″ with 10 RAE-Sep™ Tubes for Benzene, Rechargeable Li-Ion Battery, Universal Adapter, Monitor only

059-D	3	1	6-	0	0	0

→ 5407+66+119+0+0=EUR 5592

UltraRAE 3000+, ATEX/IECEx, PID 9.8 eV lamp 1/2″ with 10 RAE-Sep™ Tubes for Benzene , BLE Data Transmission, Rechargable Li-ion Battery, Accessories Kit

059-D	3	1	E-	3	0	0

→ 5407+66+119+265+367=EUR 6224

6. Photoionization (PID) Detectors

6.7 ppbRAE 3000+ Monitors (PGM-7340)

The rugged ppbRAE 3000+ is the most advanced pumped handheld volatile organic compound (VOC) monitor on the market. Its Photoionization Detector's (PID) extended range of 0 ppb to 10,000 ppm makes it an ideal instrument for applications from IAQ to HazMat/Homeland Security and M

Monitor only includes:
- ppbRAE 3000+ Monitor, Model PGM-7340
- Wireless communication in built, as specified
- Travel download charger
- PID lamp, as specified
- Flex-I-Probe
- External filter
- Black rubber boot with straps
- Alkaline battery adapter
- Lamp cleaning and Tool kit
- Li-Ion Battery with universal AC/DC adapter and international plug kit, if specified
- Soft leather carrying case
- VOC Zeroing tube (1 box), Tube adapter, Sampling bag

Monitor with Accessories Kit adds:
- Hard transport case with pre-cut foam
- Charging/download cradle (instead of travel charger)
- 5-Porous metal filters and O-rings
- Gas outlet port adapter and tubing

Part Number	Description	Li-Ion / Universal charger	Accessories Kit	EUR PG
059-C116-000	ppbRAE 3000+, none-Wireless, ATEX/IECEx, PID 10.6 eV lamp 1/2″ for Total VOC mode only, Rechargeable Li-Ion battery, universal adapter, Monitor only	•		€ 7,237.00 B1
059-C11E-500	ppbRAE 3000+, ATEX/IECEx, PID 10.6 eV lamp 1/2″ for Total VOC mode only, Rechargable Li-ion Battery, Universal Adapter, BLE Data transmission, Accessories Kit (no gas, with regulator), EU	•	•	€ 8,085.00 B1

6. Photoionization (PID) Detectors

6.8 ppbRAE 3000+ Monitors Configurator (PGM-7340)

059-C	A	B	C-	D	00
ppbRAE 3000+	Lamp	Batteries, Chargers	Wireless, Certification	Kits	Always

					Base Unit	EUR
					Basic Kit: Must select option from each group to determine total cost	**€ 7,118.00**
	A	**Lamps**				**EUR**
	1	PID 10.6 eV lamp 1/2″ for Total VOC mode only				€ 0.00
	3	PID 9.8 eV lamp 1/2″ with 10 RAE-Sep™ Tubes for Benzene				€ 66.00
		B	**Batteries, Chargers**			**EUR**
		1	Rechargeable Li-Ion battery, universal adapter			€ 119.00
			C	**Wireless, certification**		**EUR**
			6	No Wireless, ATEX/IECEx		€ 0.00
			7	Wireless (Bluetooth) data transmission, ATEX/IECEX (2.4 GHz)		€ 345.00
			8	Wireless (Mesh) data transmission, ATEX/ICEX (868MHZ)		€ 345.00
			A	Wireless (Mesh) data transmission, CU (869MHZ), Russia		€ 345.00
			B	Wireless (Mesh) data transmission, ATEX/IECEX (865.6MHz & 866.4MHZ), India		€ 345.00
			E	Wireless (BLE) data transmission, ATEX/IECEx		€ 265.00
			F	Wireless (BLE) data transmission, CU		€ 265.00
			H	No Wireless, CU		€ 0.00
				D	**Kits**	**EUR**
				0	Monitor only	€ 0.00
				3	Accessories Kit (no gas or regulator)	€ 367.00
				5	Accessories Kit (no gas, with regulator), EU	€ 583.00

059-C	A	B	C-	D	0	0

Example:

ppbRAE 3000+, none-Wireless, ATEX/IECEx, PID 10.6 eV lamp 1/2″ for Total VOC mode only, Rechargeable Li-Ion battery, universal adapter, Monitor only

059-C	1	1	6-	0	0	0

→ 7118+0+119+0+0=EUR 7237

ppbRAE 3000+, ATEX/IECEx, PID 10.6 eV lamp 1/2″ for Total VOC mode only, Rechargable Li-ion Battery, Universal Adapter, BLE Data transmission, Accessories Kit (no gas, with regulator), EU

059-C	1	1	E-	5	0	0

→ 7118+0+119+265+583=EUR 8085

6. Photoionization (PID) Detectors

6.9 Accessories, parts and Sensors for MiniRAE Lite+ / miniRAE 3000+ / ppbRAE 3000+ / UltraRAE 3000+
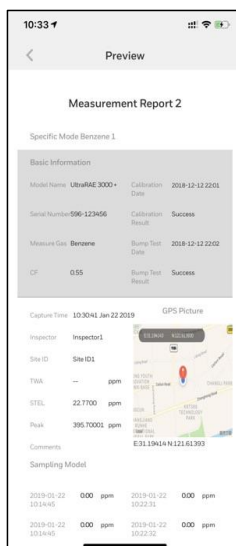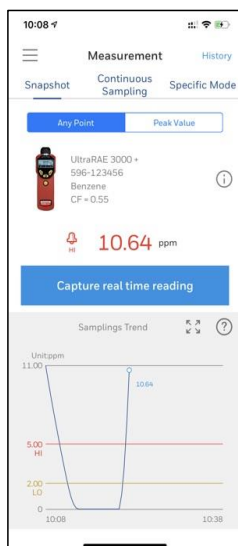
Part Number	Description	Use With…	EUR	PG
050-0000-004	10.6 eV Interchangeable 1/2″ PID lamp	All Models	€ 217.00	D2
050-0020-000	9.8 eV Interchangeable 1/2″ PID lamp	MiniRAE3000+ / ppbRAE3000+ / UltraRAE3000+	€ 276.00	D2
050-0001-000	11.7 eV Interchangeable 1/2″ PID lamp	MiniRAE3000+ / UltraRAE3000+	€ 326.00	D2
059-3051-000	Rechargeable Lithium-ion battery (intrinsically safe), For use with MiniRAE3000+ / ppbRAE3000+ / UltraRAE3000+	MiniRAE3000+ / ppbRAE3000+ / UltraRAE3000+	€ 226.00	D2
059-3053-000	Rechargeable Lithium-ion battery (NOT intrinsically safe)	MiniRAE Lite+ only	€ 208.00	D2
059-3052-000	Alkaline Battery Pack	All Models	€ 119.00	D1
500-0114-000	Power adaptor, AC/DC 100-240V INPUT,12VDC/1.25A Output (Used with PID Detectors, AutoRAE 2, RAELink 3 Z1)	All Models	€ 59.00	D1
059-2081-001	Slim Rubber Boot (Yellow), ATEX	MiniRAE 3000+	€ 40.00	D1
059-3042-001	Rubber Boot with straps (Black), ATEX	ppbRAE 3000+	€ 40.00	D1
059-2083-001	Slim Rubber Boot (Red), ATEX	UltraRAE 3000+	€ 40.00	D1
059-2082-001	Slim Rubber Boot (Green)	MiniRAE Lite+	€ 40.00	D1
059-3059-000	Charging cradle	All Models	€ 393.00	D1
059-3014-000	Travel Charger (no cables included - PN: 500-0114-000 required for charge)	All Models	€ 276.00	D1
410-0086-000	PC Communications Cable (USB 2.0, Male A to Male B)	All Models	€ 27.00	D2
023-3010-001	Sensor Assembly	All Models	€ 169.00	D2
023-3011-000-FRU	THP sensor kit	All Models	€ 119.00	D2
059-9120-000	Hard Kit, MiniRAE3000+, Accessories Universal without gas and flow regulator	MiniRAE3000+	€ 472.00	D1
059-9100-000	Hard Kit, MiniRAE Lite+, Accessories Universal without gas and flow regulator	MiniRAE Lite+	€ 472.00	D1
059-9140-000	Hard Kit, ppbRAE3000+, Accessories Universal without gas and flow regulator	ppbRAE 3000+	€ 472.00	D1
059-9160-000	Hard Kit, UltraRAE3000+, Accessories Universal without gas and flow regulator	UltraRAE 3000+	€ 472.00	D1
059-3009-000	Hard Case with Custom Foam	All Models	€ 208.00	D1
059-3015-000	Tube adapter Assembly, replacement for UltraRAE3000+	UltraRAE3000+	€ 110.00	D2
059-3008-600-FRU	Tube adapter maintenance Kit for UltraRAE3000+ (does not include the Tube adapter)	UltraRAE3000+	€ 110.00	D1
012-2502-005	VOC Tubes for UltraRAE 3000+ Monitor (5 tubes/box)	UltraRAE 3000+	€ 44.00	D2
012-3022-010	RAE-Sep™ Benzene Separation Tubes for UltraRAE 3000+ Series Monitor (requires 9.8 eV lamp) (10 tubes/box)	UltraRAE 3000+	€ 87.00	D2
012-3023-010	RAE-Sep™ Halocarbon Separation Tubes for UltraRAE 3000+ Series Monitor (10 tubes/box) (requires 11.7 eV lamp)	UltraRAE 3000+	€ 87.00	D2
012-3024-010	RAE-Sep™ Butadiene Separation Tubes for UltraRAE 3000+ Series Monitor (10 tubes/box) (requires 9.8 eV lamp)	UltraRAE 3000+	€ 87.00	D2
050-0020-000	9.8 eV Interchangeable 1/2″ PID lamp	MiniRAE3000+ / ppbRAE3000+ / UltraRAE3000+	€ 276.00	D2
050-0000-004	10.6 eV Interchangeable 1/2″ PID lamp	All Models	€ 217.00	D2
050-0001-000	11.7 eV Interchangeable 1/2″ PID lamp	MiniRAE3000+ / UltraRAE3000+	€ 326.00	D2
003-3004-000	Automotive charging adapter 12 VDC		€ 39.00	D1
500-0036-100	Universal wall charging adapter, 110 VAC to 240 VAC, 12 VDC (for single-unit charging and PC comm's cradle)		€ 50.00	D1
002-3008-000	Organic vapor zeroing kit ((charcoal filter trap) multiple use, with connectors	All Models	€ 72.00	D1
002-3022-005	External filters (pack of 5) with 1 metal connector (45 mm, 0.45 mm)	All Models	€ 40.00	D2
002-3022-010	External filters (pack of 10) with 1 metal connector (45 mm, 0.45 mm)	All Models	€ 59.00	D2
002-3022-100	External filters (pack of 100) with 1 metal connector (45 mm, 0.45 mm)	All Models	€ 521.00	D2
012-3004-000	Charcoal effluent scrubber	All Models	€ 70.00	D2
012-3009-000	Gas outlet port adapter with tubing	All Models	€ 31.00	D1
025-3002-000	External PID zeroing filter adapter (for 7-mm O.D. tubes on Flex-I-Probe)	All Models	€ 56.00	D1
025-3002-100	VOC zeroing kit (adapter & box of 10 VOC zeroing tubes)	All Models	€ 90.00	D2
081-0003-000	Replacement Charcoal filter/trap, multiple use (for organic vapor zeroing kit) pack of 2	All Models	€ 70.00	D2
081-0004-000	Replacement Charcoal filter/trap, multiple use (for organic vapor zeroing kit) pack of 6	All Models	€ 208.00	D2
490-0047-005	Porous metal filters (pack of 5)	All Models	€ 31.00	D2
002-3005-000	Collapsible, aluminum remote access probe with insulated handle and 6.5' (2 m) of Teflon tubing. Probe expands to 35″ overall length	All Models	€ 98.00	D1
008-3040-000	Case, hard-sided case with foam (14" x 12.5" x 4.25")	ALL	€ 70.00	D1
002-3009-000	Case, hard-sided packing case with foam (18.5" x 13" x 6.5")	All Models	€ 169.00	D1

6. Photoionization (PID) Detectors

Part Number	Description	Use With…	EUR	PG
081-0017-000	PID sensor lamp cleaning kit (Note: The recommended cleaning fluid Isopropanol is not included)	All Models	€ 44.00	D2
500-0003-000	Tedlar® gas Bag (3 Liter)	All Models	€ 50.00	D1
002-3013-000	Wrist strap	All Models	€ 18.00	D2
008-3003-000	Computer Interface Cable	All Models	€ 50.00	D1
000-5001-000	ProRAE Suite Software CD for Windows™ 95, 98 & NT, 2000, XP, and ME	ALL	€ 40.00	D2
081-0008-000	Tool Kit (Phillips-head screwdriver, 8 mm & 12 mm spanners for connecting probe parts)	All Models	€ 31.00	D1

BLE modem upgrade kit for PID Detectors

Part Number	Description	Use With…	EUR	PG
059-0303-001	BLE Modem Upgrade Kit 3G PID to 3G PID+ series (All Models)	All Models	€ 350.00	D2

Click to download the Device Configurator App

059-3051-000
Rechargeable Lithium-ion battery (intrinsically safe), For use with MiniRAE3000+ / ppbRAE3000+ / UltraRAE3000+

059-3052-000
Alkaline Battery Pack

500-0114-000
Power adaptor, AC/DC 100-240V INPUT,12VDC/1.25A Output (Used with PID Detectors, AutoRAE 2, RAELink 3 Z1)

059-3059-000
Charging cradle

059-3014-000
Travel Charger
(no cables included - PN: 500-0114-000 required for charge)

002-3022-005
External filters (pack of 5) with 1 metal connector (45 mm, 0.45 mm)

023-3010-001
Sensor Assembly

002-3008-000
Organic vapor zeroing kit ((charcoal filter trap) multiple use, with connectors

012-3004-000
Charcoal effluent scrubber

012-3009-000
Gas outlet port adapter with tubing

025-3002-000
External PID zeroing filter adapter (for 7-mm O.D. tubes on Flex-I-Probe)

025-3002-100
VOC zeroing kit (adapter & box of 10 VOC zeroing tubes)

081-0003-000
Replacement Charcoal filter/trap, multiple use (for organic vapor zeroing kit) pack of 2

490-0047-005
Porous metal filters (pack of 5)

002-3005-000
Collapsible, aluminum remote access probe with insulated handle and 6.5' (2 m) of Teflon tubing. Probe expands to 35″ overall length

081-0017-000
PID sensor lamp cleaning kit (Note: The recommended cleaning fluid Isopropanol is not included)

500-0003-000
Tedlar® gas Bag (3 Liter)

008-3003-000
Computer Interface Cable

081-0008-000
Tool Kit (Phillips-head screwdriver, 8 mm & 12 mm spanners for connecting probe parts)

023-3012-000
6" flexible probe
(Requires M01-3224-000 to be used with MultiRAE)

7. Docking Stations

7.1 AutoRAE 2 Automatic Test and Calibration System

The AutoRAE 2 Automatic Test and Calibration System makes compliance with gas monitor test and calibration requirements as easy as pressing a button. Simply cradle the monitor and the system will take care of all calibration, testing, recharging, and calibration record keeping.

The AutoRAE 2 is a flexible, modular system that can be configured to meet your calibration requirements effectively and efficiently/ An AutoRAE 2 system can be as simple as a single cradle deployed in standalone mode to calibrate one instrument at a time using up to 2 different gas cylinders, or as powerful as a controller-based system supporting 10 instruments and 5 gas cylinders.

Part Number	Description	Compatible Instruments	EUR PG
T02-0107-000	AutoRAE 2 Controller Includes terminal adapter. No instrument cradles, gas, regulators, or external tubing included	Supports all AutoRAE 2 Cradles	€ 1,992.00 A4
T02-0103-000	AutoRAE 2 Cradle for MultiRAE Pumped Models Contains everything required for deployment in standalone mode or as part of a controller-based system with multiple cradles. No gas, regulators, or external tubing included	MultiRAE Family	€ 1,712.00 A4
T02-0003-000	AutoRAE 2 Cradle for ToxiRAE Pro Contains everything required for deployment in standalone mode or as part of a controller-based system with multiple cradles. No gas, regulators, or external tubing included	ToxiRAE Pro Family	€ 929.00 A4
T02-0203-000	AutoRAE 2 Cradle for QRAE 3 Contains everything required for deployment in standalone mode or as part of a controller-based system with multiple cradles. No gas, regulators, or external tubing included	QRAE 3	€ 1,215.00 A4
T02-0503-000	AutoRAE 2 Cradle for MicroRAE Contains everything required for deployment in standalone mode or as part of a controller-based system with multiple cradles. No gas, regulators, or external tubing included	MicroRAE	€ 1,215.00 A4
T02-0403-000	AutoRAE 2 Cradle for Handheld PID Contains everything required for deployment in standalone mode or as part of a controller-based system with multiple cradles. No gas, regulators, or external tubing included	MiniRAE Lite+, MiniRAE 3000+, UltraRAE 3000+ and ppbRAE 3000+	€ 1,712.00 A4
T02-0303-000	Wi-Fi Module for AutoRAE 2 Controller Includes Wi-Fi module, power charger, Ethernet cable and in-the-box accessories.	AutoRAE 2 Controller	€ 167.00 A4
T02-0108-000	AutoRAE 2 Terminal Adapter	all	€ 232.00 A4

7.2 AutoRAE 2 Accessories and Replacement Parts

Part Number	Description	EUR PG
410-0086-000	PC Communications Cable (USB 2.0, Male A to Male B)	€ 27.00 D2
410-0225-000	Ethernet Cable	€ 7.00 D1
008-3022-010	External Water trap filter 25mm without Adapter (pack of 10) for pumped model	€ 29.00 D1
T02-3019-000	Side covers kit for stand alone operation (Consists of 2 end caps: 1 for left side-1 for right side)	€ 32.00 D1
500-0114-000	Power adaptor, AC/DC 100-240V INPUT,12VDC/1.25A Output (Used with PID Detectors, AutoRAE 2, RAELink 3 Z1)	€ 59.00 D1
T02-3020-000	Power Adapter with US power cord, AutoRAE 2 Controller	€ 113.00 D1
T02-3020-001	Power Adapter with EU power cord, AutoRAE 2 Controller	€ 113.00 D1
T02-3020-002	Power Adapter with UK power cord, AutoRAE 2 Controller	€ 113.00 D1
411-0008-000	Teflon® tubing 1/16" ID (unit price is per 1 feet)	€ 32.00 D1
411-0018-037-05	Tubing Tygon ,1/8" Diameter inside,Each length:15mm (pack of 5)	€ 12.00 D1
490-0006-000	Active Carbon Filter	€ 69.00 D1
T02-3301-000	Quick Connector ASSY,AutoAE2 Cradle for 3G PID	€ 121.00 D1
T02-3106-100	2 ToxiRAEPro EC, LEL and CO2 adapters for ToxiRAE Pro cradle (include Product label)	€ 21.00 D1
T02-3106-000	2 ToxiRAEPro PID adapters for ToxiRAE Pro cradle (include Product label)	€ 21.00 D1

Ordering Instructions

Single-Cradle Standalone System
- To order an AutoRAE 2 cradle for standalone deployment, please order the AutoRAE 2 Cradle compatible with the unit.
Please note that ToxiRAE Pro Cradle is supplied with adapters in order to be compatible with all ToxiRAE Pro family devices.

Multi-Cradle System with the AutoRAE 2 Controller
- To order an AutoRAE 2 with 2 or more Cradles (the AutoRAE 2 Controller is required in this case), please order the controller (PN: T02-0107-000) PLUS as many individual cradles as specified in the purchase order (MultiRAE2 cradles and ToxiRAE Pro cradles can be mixed on the same system).
The Controller and each Cradle will come in its own individual box.

AutoRAE 2 Controlling Networking
Networking is enabled for communication to ProRAE Studio II (version 1.8.1 or higher) via an Ethernet cable. The Wi-Fi module (T02-0303-000) allows the Controller to connect to ProRAE Studio II via a wireless network

* AutoRAE 2 Handheld PID cradle requires a Flex-I-Probe Quick Connector to be installed on each detector. Each Handheld PID cradle comes with one Quick connector. Additional Quick Connectors must be purchased separately.

7. Docking Stations

7.3 AutoRAE Lite Bump Test and Calibration Station Model GTS 1000

The AutoRAE Lite is a high-speed and low -operation cost bump test and calibration station with data storage in Excel format.

The AutoRAE Lite provides the lowest cost of ownership on the market, and can perform up to 700 bump tests on a single set of batteries.

The AutoRAE Lite software offers the flexibility to meet each customer's unique requirements. The automated bump and calibration station provides data storage as well as the ability to easily re-configure the monitor (or ToxiRAE 3).

AutoRAE Lite includes:
• AutoRAE Lite as specified
• USB cable for PC set-up
• 12-volt power supply
• Demand-flow regulator (male thread)
• SD memory card (minimum 512Mb)
• Quick Start Guide
• Inlet filter

Part Number	Description	EUR	PG
T01-0100-000	Bump Test and Calibration (ToxiRAE 3 version)	€ 1,414.00	A4

7.4 Calibration Accessories

Part Number	Description	EUR	PG
002-3008-000	Organic vapor zeroing kit ((charcoal filter trap) multiple use, with connectors	€ 72.00	D1
081-0003-000	Replacement Charcoal filter/trap, multiple use (for organic vapor zeroing kit) pack of 2	€ 70.00	D2
081-0004-000	Replacement Charcoal filter/trap, multiple use (for organic vapor zeroing kit) pack of 6	€ 208.00	D2
500-0003-000	Tedlar® gas Bag (3 Liter)	€ 50.00	D1
002-2044-005	Tygon® to Teflon® Fitting (pack of 5)	€ 31.00	D1
411-0003-041-10	Tygon® tubing (connects to Tedlar® bag) (10 feet)	€ 32.00	D1
411-0008-000	Teflon® tubing 1/16" ID (unit price is per 1 feet)	€ 32.00	D1
411-0018-037-10	Tygon® tubing 1/8" ID (10 feet)	€ 41.00	D1
411-0003-041	Tygon® tubing (5/32" x 7/32" x 1/32") (unit price is per 1 feet)	€ 4.00	D1
411-0005-000	Teflon® tubing, AWG#9, standard wall,TFS9, 4mm O.D (unit price is per 1 feet)	€ 5.00	D1
411-0018-037	Tygon® Tubing 1/8"X1/4"X1/16" (unit price is per 1 feet)	€ 5.00	D1
411-0025-037	SE-200 FEP-lined Tygon® Tubing 1/4" OD, 1/8" ID (unit price is per 1 feet)	€ 13.00	D1

Find out more about Honeywell Safety Suite Device Manager Software:
https://www.honeywellaidc.com/solutions/connected-worker/safety-suite
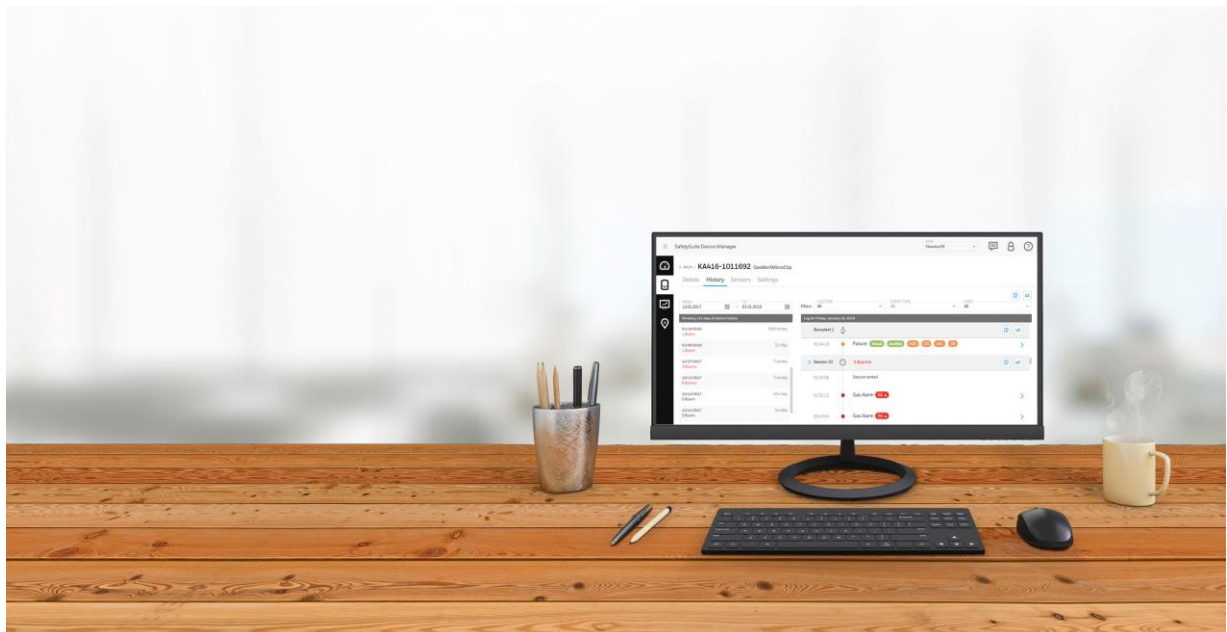
8. Local wireless solutions for teams

8.1 EchoView Host & Mesh Router

EchoView Host Wireless Mini-Controller for Wireless Portable Monitors

The EchoView Host mini-controller is the cornerstone of RAE Systems' Closed-Loop Wireless Solutions for portable gas monitors. This rugged handheld wireless device can establish a self-contained, self-sufficient network with up to eight supported RAE Systems portable wireless monitors and display their readings and alarm status in real time on an easy-to-read screen.

Mesh Routers extend the communications range between the EchoView Host and supported portable gas monitors.

EchoView Host 868 MHz   Mesh Router 868

Part Number	Description	EUR PG
F04-G310-110	EchoView Host Stainless Steel Housing, FMC-400, 868MHz, CSA/ATEX/IECEX without Battery, Standard Kit	€ 1,282.00 C3
F04-AAH0-100	EchoView Host, FMC-400, 869MHz, CU, Without Battery, Standard Kit	€ 1,152.00 C3
F04-AB10-100	EchoView Host, FMC-400, 865.6MHz & 866.4MHz, CSA/ATEX/IECEX, Without Battery, Standard Kit	€ 1,152.00 C3
F04-H310-110	Mesh Router Stainless Steel Housing, FMC-400, 868MHz, CSA/ATEX/IECEX, Wihtout Battery, Standard Kit	€ 1,282.00 C3
F04-BCH0-100	Mesh Router, FMC-400, 869MHz, RM900A, CU, Without Battery, Standard Kit	€ 1,152.00 C3
F04-BD10-100	Mesh Router, FMC-400, 865.6MHz & 866.4MHz, RM900A, CSA/ATEX/IECEX, Without Battery, Standard Kit	€ 1,152.00 C3

* Note: MeshRouter and EchoView Host Batteries need to be ordered separately

Part Number	Description	EUR PG
500-0111-000-01	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl$_2$, D-SIZE, 3.6V, each)	€ 41.00 D2
500-0111-000-05	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl$_2$, D-SIZE, 3.6V) pack of 5	€ 152.00 D2

Warning: Only Change battery in a non-hazardous (safe) location and use the battery RAE Systems provided.
After changing the battery, wait at least 60 seconds before turning the device on

Internal Battery Replacement
1. Use the 3-pin end of the tool to unscrew and open the battery cover by turning it counterclockwise.
2. Remove the battery.
3. Insert the new battery with its positive ("+") pole towards inside of the unit.
4. Replace the battery cover by turning it clockwise with the 3-pin end of the tool

Battery Compartment

3-Pin End

Hexagonal end

9. ConneXt Safety Solution Infrastructure

9.1 RAELink3 Zone 1 Mesh Wireless Transmission System with Integrated GPS (Model RLM-3112)

The RAELink3 Z1 Mesh modem connects RAE Systems and approved third-party portable gas monitors to the ProRAE Guardian Real-Time Wireless Safety System that delivers commanders remote access to real-time threat data for better visibility and faster incident response. Monitors can be connected to a RAELink3 Z1 Mesh modem wirelessly or with a cable to communicate sensor readings, alarm status and GPS coordinates to the command center up to 2 mi (3 km) away. RAELink 3 Z1 Mesh' ability to support multiple monitors at the same time provides a more cost-effective solution requiring fewer modems to be used by responder teams, and reduces the number of items responders have to carry downrange.

Kit Includes:
- RAELink3 Z1 Mesh modem (869 MHz) w/Mesh Radio and GPS
- Charging adapter with AC cable
- Coiled RS-232 serial cable for RAE portable products
- RS-232 serial computer interface cable
- RS-232 serial to USB adapter
- Whip antenna
- Magnet mount antenna with 12' cable
- Quick reference guide
- Hard transport case

Monitors Supported:
- ToxiRAE Pro Family (wireless version)
- QRAE 3 (wireless versions)
- MultiRAE Family (wireless versions)
- MicroRAE (wireless version)
- PID Photoionization Detection series

3rd party products require specific communication cables to connect to the RAELink3 Z1 Mesh (see below).

Part Number	Description	EUR PG
029-0680-000	RAELink3 Z1 Mesh Kit (not suitable for Indian and Russian frequencies, use RAEpoint, FMC-400, Radiant Reader instead) Multi-function modem with GPS can operate as a Remote modem with wirelessly-enabled portables, or as a Repeater in a ProRAE Guardian Wireless Safety System to bypass obstacles and extend the range, or as a Host modem to communicate with up to 64 remote devices. Kit includes a RAELink3 Z1 Mesh modem with charging adapter and complete accessories for all three modes of operation (869MHz).	€ 2,366.00 C3

9.2 RAELink3 Zone 1 Bluetooth Wireless Modem with Integrated GPS (Model RLM-3100)

The RAELink3 Z1 Mesh modem connects RAE Systems and approved third-party portable gas monitors to the ProRAE Guardian Real-Time Wireless Safety System that delivers commanders remote access to real-time threat data for better visibility and faster incident response. Monitors can be connected to a RAELink3 Z1 Mesh modem wirelessly or with a cable to communicate sensor readings, alarm status and GPS coordinates to the command center up to 2 mi (3 km) away. RAELink 3 Z1 Mesh' ability to support multiple monitors at the same time provides a more cost-effective solution requiring fewer modems to be used by responder teams, and reduces the number of items responders have to carry downrange.

Kit Includes:
- RAELink3 Z1 869MHz modem w/Bluetooth & GPS
- Charging adapter with AC cable
- Coiled RS-232 serial cable for RAE portable products
- RS-232 serial computer interface cable
- RS-232 serial to USB adapter
- Whip antenna
- Magnet mount antenna with 12' cable
- Quick reference guide
- Hard transport case

Products supported (check RAE website for latest listing):
- AreaRAE Plus
- AreaRAE Pro
- MiniRAE 3000+, ppbRAE 3000+, • UltraRAE 3000+, ppbRAE 3000+
- BioHarness 3 (Physiological)

Part Number	Description	EUR PG
029-0600-000	RAELink3 Z1 Kit Multi-function modem with GPS can operate as a Remote modem with wireless-enabled portables, or as a Repeater in an AreaRAE system to bypass obstacles, or as a Host modem to communicate with up to 12 remote devices. Kit includes a RAELink3 Z1 modem with complete accessories for all three modes of operation (869MHz).	€ 2,366.00 C3

9. ConneXt Safety Solution Infrastructure

9.3 RAELink3 Accessories and Replacement Parts

Part Number	Description	EUR PG
029-3503-001	RAELink3 Z1 Mesh Mini-Charger. Does not include AC/DC power adapter	€ 101.00 D1
500-0114-000	Power adaptor, AC/DC 100-240V INPUT,12VDC/1.25A Output (Used with PID Detectors, AutoRAE 2, RAELink 3 Z1)	€ 59.00 D1
029-3506-000	RAELink3 Z1 Mesh Cable Assembly. Coiled serial cable for connection of RAELink3 Z1 Mesh with RAE portable monitors	€ 61.00 D1
029-3042-000	RAELink3 Z1 Mesh Cable Assembly for ChemRAE. Coiled serial cable connects ChemRAE to RAELink2E or RAELink3 Z1 Mesh	€ 93.00 D1
550-7026-000	RAELink3 Z1 Mesh Antenna. Whip antenna (869MHz)	€ 61.00 D1
550-7018-000	RAELink3 Z1 Mesh Magnetic Mount Cable Assembly. Magnetic mount base and 12' cable assembly for use with antenna (869MHz)	€ 101.00 D1
029-7117-001	RAELink3 Z1 Mesh Antenna for Magnetic Mount. Does not include magnetic base with 12' cable (869MHz)	€ 61.00 D1
029-7104-TNC	RAELink3 Z1 Mesh Remote Antenna with 25' Cable Extension	€ 403.00 D1
029-7105-TNC	RAELink3 Z1 Mesh Remote Antenna with 50' Cable Extension	€ 626.00 D1
029-3501-100	RAELink3 Z1 Mesh Rechargeable Li-ion Battery Pack	€ 174.00 D2
029-3507-000	RS-232 Cable Computer Interface for RAELink 3	€ 78.00 D1
410-0210-000	RS-232 9-pin Male Cable Adapter USB TO Serial	€ 119.00 D1

10. conneXt Pro - Enterprise gas detection for real-time safety intelligence

10.1 RadiantReader

The RadiantReader acts as a hub to connect wireless gas monitors to a PC running ProRAE Guardian for real-time data insight and management. RadiantReader can communicate with up to 100 remote monitors directly. ProRAE Guardian supports up to five RadiantReaders to give a total capacity of 500 monitors. The RadiantReader can connect directly with a PC via its COM port, or one or more RadiantReaders can be networked through a TCP/IP connection via Ethernet to push sensor data to ProRAE Guardian or third party control system through MODBUS TCP/IP.
• A networked setup allows visibility of 500 monitors on other PCs running ProRAE Guardian.

Kit Includes:
• RadiantReader
• Backup Battery (Part number 500-0155-000)
• Coaxial lightning surge protector (Part Number 190-0201-000)
• PoE Injector is not included in the kit, please see table below for ordering information

Monitors Supported (Wireless Connection):
• ToxiRAE Pro Family (mesh wireless versions)
• QRAE 3 (mesh wireless versions)
• MultiRAE Family (mesh wireless versions)
• MicroRAE (mesh wireless versions)

Part Number	Description	EUR	PG
W021-0000-000	RadiantReader 868MHz Mesh radio access point, Europe	€ 2,071.00	C3
W02H-00C0-000	RadiantReader 869MHz-RM900A Mesh radio access point, Russia	€ 2,071.00	C3
W02H-00D0-000	RadiantReader 865.6 & 866.4MHz Mesh radio access point, India	€ 2,071.00	C3
500-0157-000	Power Over Ethernet (PoE) Power Adaptor, 100-240V Input, 50/60Hz, 55V/30W Output - EU	€ 284.00	D1
500-0157-001	Power Over Ethernet (PoE) Power Adaptor, 100-240V Input, 50/60Hz, 55V/30W Output - UK	€ 284.00	D1
550-7038-000	Antenna 869MHZ, 2DBI, N-Male Connector	€ 246.00	D2
190-0201-000	Lightning Arrestor Conncter N-Type ,50 ohm, 2500MHz	€ 27.00	UC

10.2 RAEPoint Wireless Router

RAEPoint for ConneXt is a permanently mounted wireless router for RAE Systems wirelessly-enabled gas monitoring systems. The RAEPoint opera a router in hazardous areas to route gas monitors' data to a PC-based ProRAE Guardian host controller or EchoView Host handheld controller.
A single RAEPoint can support up to 50 compatible gas monitors in various configurations.

Operation Mode
1: Remote/Router
2: Host
4: RAEGuard 2 PID

RAEPoint → F08-00XX-X00

All RAEPoint comes with
• Five 3-level programmable alarm relays
• 4 LEDs (Network, Alarm, Communication, Mode)
• Stainless Steel Plug
• Antenna removal tool
• Housing cover removal tool
• Instruction Manual

Certification
0: ATEX/IECEx
1: CSA
H: CU Russia

Wireless Module
0: 2.4GHz
1: 868MHz
2: 915MHz
C: 869MHz CU (Russia)
D: 865.6MHz & 866.4MHz (India)

Part Number	Description	EUR	PG
F08-0001-100	RAEPoint Router/Remote, ATEX/IECEx, 868 MHz, Standard Kit - Europe	€ 1,483.00	C3
F08-0002-100	RAEPoint Host, RRA2000, ATEX/IECEX, RM900A, 868MHz, Five 3-level programmable alarm relays, 4 LEDs (Network, Alarm, Communication, Mode)	€ 1,483.00	C3
F08-0001-D00	RAEPoint Router/Remote, ATEX/IECEx, 865.6 MHz & 866.4 MHz, Standard Kit - India	€ 1,483.00	C3
F08-0002-D00	RAEPoint Host, ATEX/IECEx, 865.6 MHz & 866.4 MHz, Standard Kit - India	€ 1,483.00	C3
F08-00H1-C00	RAEPoint Router/Remote, CU, 869 MHz, Standard Kit - Russia	€ 1,483.00	C3
F08-00H2-C00	RAEPoint Host, CU, 869 MHz, Standard Kit - Russia	€ 1,483.00	C3
F08-0011-200	RAEPoint Router/Remote, CU, 915 MHz, Standard Kit - USA	€ 1,483.00	C3
F08-0012-200	RAEPoint Host, CU, 915 MHz, Standard Kit - USA	€ 1,483.00	C3

10. conneXt Pro - Enterprise gas detection for real-time safety intelligence

10.3 Wireless Alarm Bars

The wireless alarm bars Wirelessly triggers alarm notification in hazardous environments

All Wireless Alarm Bar units include:
- RAEPoint Fixed Wireless Relay (with five internal relays)
- Red xenon light
- Yellow xenon light
- 112dBA horn
- Mounting plate
- Antenna removal tool
- Housing cover removal tool
- User's guide

WA100 Alarm

Part Number	Description	EUR	PG
F08-E011-020	AC Wireless Alarm Bar, CSA C1D2, 915 MHz	€ 4,140.00	UB
F08-E002-1C0	WA100 DC Wireless Alarm bar, safe Area truck mount, 868 MHz	€ 1,815.00	UB
F08-E012-2C0	WA100 DC Wireless Alarm bar, safe Area truck mount, 900 MHZ	€ 1,815.00	UB
F08-E300-000	FTB 100 battery solar panel version (Including the solar panel, battery pack C1D2, enclosure and connectors)	€ 7,227.00	UB
F05-E030-024	FA-324 Alarm Bar with 4 Visible and One Audio Alarm 24 Volt DC for use with TPPLW.	€ 1,770.00	UB

10.4 MBeacon Location Enhancer for the ConneXt Pro System

The Honeywell MBeacon is an integral component of the Honeywell ConneXt Pro system, used for determining the location of a wireless gas monitor. The MBeacon is battery powered and does not require a network connection, making deployment, installation, and maintenance easy and very low cost.

MultiRAE, QRAE 3 and ToxiRAE Pro
wireless portable gas monitors

Part Number	Description	EUR	PG
F04-E710-100	Mbeacon, FMC-400, 868MHz, RM900, CSA/ATEX/IECEX, Without Battery, Standard Kit	€ 533.00	C3
F04-EAH0-100	Mbeacon, FMC-400, 869MHz, RM900, CU, without Battery Standard Kit	€ 533.00	C3
F04-EB10-100	Mbeacon, FMC-400, 865.6MHz & 866.4MHz, RM900, CSA/ATEX/IECEX. Without Battery, Standard Kit	€ 533.00	C3

* Note: Mbeacon Batteries need to be ordered separately

Part Number	Description	EUR	PG
500-0111-000-01	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V, each)	€ 41.00	D2
500-0111-000-05	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V) pack of 5	€ 152.00	D2

Warning: Only Change battery in a non-hazardous (safe) location and use the battery RAE Systems provided.
After changing the battery, wait at least 60 seconds before turning the device on

Internal Battery Replacement
1. Use the 3-pin end of the tool to unscrew and open the battery cover by turning it counterclockwise.
2. Remove the battery.
3. Insert the new battery with its positive ("+") pole towards inside of the unit.
4. Replace the battery cover by turning it clockwise with the 3-pin end of the tool

Battery Compartment

3-Pin End

Hexagonal end

10. conneXt Pro - Enterprise gas detection for real-time safety intelligence

10.5 BioHarness 3 – Wireless Physiological Status Monitoring

The BioHarness is a lightweight, chest-worn strap that incorporates ECG (electrocardiogram) and breathing rate sensors for real-time portable physiological monitoring. It links to a RAELink3 portable modem, enabling the long-range wireless radio to transmit sensor readings and GPS coordinates in real time to a PC running ProRAE Guardian safety monitoring software. The BioHarness facilitates quick assessment of an individual's health status so that work levels can be modified as appropriate to reduce the risk of threats such as heat stress. Using ProRAE Guardian, the BioHarness readings can be coupled with a variety of other safety sensors for the detection and characterization of hazardous atmospheres.

The BioHarness solution consists of a strap, BioModule with embedded sensors (ProRAE Guardian software need to be purchased separately)
The BioHarness strap is available in two sizes (XS-M) and (M-XL).

BioHarness Kit
• BioHarness strap and BioModule with embedded sensors
• USB charging cradle with AC adapter
• Quick start guide
• Leather carrying case

BioHarness Strap
• BioHarness strap
• Quick start guide
• Cardboard box

Part Number	Description	EUR	PG
039-BH10-001	BioHarness 3 Kit (XS-M strap) - Extra Small-Medium BioHarness strap with BioModule (does not include RAELink3 or ProRAE Guardian license)	€ 1,392.00	C3
039-BH10-101	BioHarness 3 Kit (M-XL strap) - Medium-Extra Large BioHarness strap with BioModule (does not include RAELink3 or ProRAE Guardian license)	€ 1,392.00	C3
039-BH20-001	BioHarness 3 strap (XS-M) - Extra Small-Medium BioHarness strap (does not include BioModule, RAELink3 modem, or ProRAE Guardian license)	€ 437.00	C3
039-BH20-101	BioHarness 3 strap (M-XL) - Medium-Extra Large BioHarness strap (does not include BioModule, RAELink3 modem, or ProRAE Guardian license)	€ 437.00	C3

11. Touchpoint™ Plus Wireless Controller

Touchpoint™ Plus Wireless is a multi-channel controller with a built-in wireless modem that is designed for integration with MeshGuard intelligent network of connected sensor combined with traditional hard wired sensors.

Touchpoint™ Plus Wireless is a wall mounted control system with a simple configuration, that supports up to 64 wireless channels and has an option of up to eight channels of gas detection. It accepts inputs from two or three- wire mA field devices.

Touchpoint™ Plus Wireless includes a comprehensive set of outputs as standard including common alarms. Its intuitive, multilingual interface simplifies operation and minizes training requirements. The full colour traffic light style status indication provides clarity from a distance.

11.1 Instruments

Part Number	Description	EUR	PG
TPPLWDANNSNNNN	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 2.4GHz, with DC supply and wall mounted enclosure. Supplied complete with 12x relays.	€ 2,810.00	UB
TPPLWDAA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 2.4GHz, with DC supply and wall mounted enclosure. Supplied complete with 8x mA input, 12x relays, battery backup and Modbus RTU and TCP.	€ 4,244.00	UB
TPPLWAANNSNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 2.4GHz, with AC supply and wall mounted enclosure. Supplied complete with 12x relays, battery backup and Modbus RTU and TCP.	€ 3,633.00	UB
TPPLWAAA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 2.4GHz, with AC supply and wall mounted enclosure. Supplied complete with 8x mA input, 12x relays, battery backup and Modbus RTU and TCP.	€ 4,340.00	UB
TPPLWDBNNSNNNN	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 868MHz, with DC supply and wall mounted enclosure. Supplied complete with 12x relays - EMEA	€ 2,810.00	UB
TPPLWDBA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 868MHz, with DC supply and wall mount enclosure. Supplied complete with 8x 4-20mA input, 12x relays, Backup Battery and Modbus RTU and TCP - EMEA	€ 4,244.00	UB
TPPLWABNNSNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 868MHz, with AC supply and wall mounted enclosure. Supplied complete with 12x relays, Backup Battery and Modbus RTU and TCP - EMEA	€ 3,633.00	UB
TPPLWABA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 868MHz, with AC supply and wall mounted enclosure. Supplied with 8x 4-20 mA input, 12x relays, Backup Battery and Modbus RTU and TCP - EMEA	€ 4,340.00	UB
TPPLWDCNNSNNNN	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 869MHz, with DC supply and wall mounted enclosure. Supplied complete with 12x relays - Russia	€ 2,810.00	UB
TPPLWDCA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 869MHz, with DC supply and wall mounted enclosure, Supplied complete with 8x 4-20mA input, 12x relays, Backup Battery and Modbus RTU and TCP - Russia	€ 4,244.00	UB
TPPLWACNNSNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 869MHzm with AC supply and wall mounted enclosure. Supplied complete with 12x relays, Backup Battery and Modbus RTU and TCP - Russia	€ 3,633.00	UB
TPPLWACA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 869MHz with AC supply and wall mounted enclosure. Supplied complete with 8x 4-20mA input, 12x relays, Backup Battery and Modbus RTU and TCP - Russia	€ 4,340.00	UB
TPPLWDDNNSNNNN	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 865.6/865.4MHz with DC supply and wall mounted enclosure. Supplied complete with 12x relays - India	€ 2,810.00	UB
TPPLWDDA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 865.6/865.4MHz with DC supply and wall mount enclosure. Supplied complete with 8x 4-20mA input, 12x relays, Backup Battery and Modbus RTU and TCP - India	€ 4,244.00	UB
TPPLWADNNSNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 865.6/865.4MHz, with AC supply and wall mounted enclosure. Supplied complete with 12x relays, Backup Battery and Modbus RTU and TCP - India	€ 3,633.00	UB
TPPLWADA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 865.6/865.4MHz with AC supply and wall mounted enclosure. Supplied with 8x 4-20 mA input, 12x relays, Backup Battery and Modbus RTU and TCP - India	€ 4,340.00	UB
TPPLWDENNSNNNN	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 900MHz, with DC supply and wall mounted enclosure. Supplied complete with 12x relays - North America	€ 2,810.00	UB
TPPLWDEA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 900MHz, with DC supply and wall mount enclosure. Supplied complete with 8x 4-20mA input, 12x relays, Backup Battery and Modbus RTU and TCP - North America	€ 4,244.00	UB
TPPLWAENNSNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 900MHz, with AC supply and wall mounted enclosure. Supplied complete with 12x relays, Backup Battery and Modbus RTU and TCP - North America	€ 3,633.00	UB
TPPLWAEA8SNBRT	Touchpoint™ Plus Wireless Controller for up to 64 wireless channels, 900MHz, with AC supply and wall mounted enclosure. Supplied with 8x 4-20 mA input, 12x relays, Backup Battery and Modbus RTU and TCP - North America	€ 4,340.00	UB

11. Touchpoint™ Plus Wireless Controller

11.2 Accessories

Part Number	Description	EUR	PG
TPPLOWMB	Wall mounting bracket	€ 175.00	UC
TPPLWOANT	Touchpoint™ Plus Wireless Antenna (2.4GHz)	€ 185.00	UC
TPPLWOANT2	Touchpoint™ Plus Wireless Antenna (868/900MHz)	€ 185.00	UC
TPPLWOCBL	Touchpoint™ Plus Wireless 10 meter antenna extension cable	€ 396.00	UC
TPPLWOSRT	Touchpoint™ Plus Wireless Surge arrestor	€ 66.00	UC
TPPLWOWSCBL	Touchpoint™ Plus Wireless 10 meter cable for Wind Sensor	€ 484.00	UC
TPPLWOWS	Touchpoint™ Plus Wireless Wind sensor, Mounting plate, Mounting nut, 10m cable	€ 3,696.00	UC
TPPLOMGND	Metal grounding for cable gland	€ 175.00	UC
TPPLOGLD	Cable glandes (13 ea)	€ 88.00	UC
TPPLOSDC	SD card for Touchpoint™ Plus Wireless	€ 46.00	UC
TPPLWOFA300	FA300 connection kit	€ 141.00	UC
F05-E030-024	FA-324 Alarm Bar with 4 Visible and One Audio Alarm 24 Volt DC for use with Touchpoint Plus Wireless	€ 1,770.00	UB

11.3 Spares

Part Number	Description	EUR	PG
TPPLWSDPM	Touchpoint™ Plus Wireless User Interface (UI) PCB Module	€ 964.00	UC
TPPLWSDPMRT	Touchpoint™ Plus Wireless User Interface (UI) PCB Module, Modbus	€ 982.00	UC
TPPLWSMPM	Touchpoint™ Plus Wireless Main PCB Module	€ 675.00	UC
TPPLSIBB	Backup battery pack	€ 314.00	UC
TPPLSLTSM	LCD + Touch Screen Module	€ 225.00	UC
TPPLSBPM	Back Plane Module	€ 225.00	UC
TPPLSSAM	SMPS Assembly Module(150W,110/220VAC)	€ 225.00	UC
TPPLWSMAAI8	Touchpoint™ Plus Wireless 8x mA Input Module	€ 1,069.00	UC
TPPLWSMAROC	Touchpoint™ Plus Wireless 12x Relay Output Module	€ 632.00	UC
TPPLWSMAWIO	TPPLW Wireless IO Module (2.4GHz)	€ 1,190.00	UC
TPPLWSMAWIOB	TPPLW Wireless IO Module, 868MHz (Service Part)	€ 1,190.00	UC
TPPLWSMAWIOC	TPPLW Wireless IO Module, 869MHz (Service Part)	€ 1,190.00	UC
TPPLWSMAWIOD	TPPLW Wireless IO Module, 865.6/865.4MHz (Service Part)	€ 1,190.00	UC
TPPLWSMAWIOE	TPPLW Wireless IO Module, 900MHz (Service Part)	€ 1,190.00	UC

12. Area Monitoring - AreaRAE Plus and AreaRAE Pro (PGM-65XXX)

AreaRAE Plus / Pro is a wireless, transportable area monitor that can simultaneously detect toxic and combustible gases, volatile organic chemicals, and meteorological factors that affect the speed and direction of the gas.

AreaRAE Plus:

Whether you need to protect your community by monitoring a fence line, protect your employees during a maintenance turnaround, or protect your fire and hazmat team during emergency response, the AreaRAE Plus alerts you to threats with local audible and visual alarms. Plus, it works with Honeywell's remote monitoring software to give you a real-time view of threat readings from a safe location.

AraeRAE Pro:

Whether you're carrying it into a hazmat response, setting up perimeter at a fire or protecting a public venue, the AreaRAE Pro works with Honeywell's remote monitoring software to give you a real-time view of threat readings — so you can ensure the safety of your teams and the general public.

AreaRAE Plus / Pro delivers flexibility for your changing requirements:

• Multiple 4R+ sensors for toxic and combustible gas.
• 7R+ photoionization detector. Monitor VOCs at parts per million or parts per Billion, with built-in compensation for temperature and humidity.
• Optional meteorological sensor for tracking toxic plumes. Use the RAEMet, a 5-inch-tall sensor on top of the AreaRAE Plus / Pro, to measure wind speed, direction and other factors; then model the data with Honeywell's real-time monitoring software, which integrates the ALOHA hazard monitoring program.
• Optional gamma sensor for radiation detection (AreaRAE Pro Only). Choose this sensor for high sensitivity and fast response — with no need to trade off on your other sensors. The gamma sensor has its own dedicated slot.

		AreaRAE Plus PGM-6520x	AreaRAE Pro PGM-6560x
Sensors			
Number of gas sensor Slots		7	7
PID	7R+ 10.6eV (10ppb)	No	Yes
	7R+ 10.6eV (0.1 ppm)	Yes	No
	4R+ 9.8eV (0.1 ppm)	Yes	Yes
Catalytic %LEL Sensor		Yes	Yes
NDIR CO2 Sensor		Yes	Yes
Toxic EC		Up to 6	Up to 6
Gamma		No	OptionalDedicated Sensor Slot
RAEMet (Wind Speed & Direction, Temperature, %RH)		Option	Yes
Wireless			
Long Range	ISM 2.4 GHz	Yes	Yes
	Wi-Fi	Option	Option
	Cellular	Future	Future
Short Range	RAEMesh	Yes	Yes
	BLE	Future	Future
GPS		Standard	Standard
Mechanical			
Relays		3	3
Sampling		Pumped	Pumped
IP Rating		IP-65	IP-65
Audible Alarm		108 dB @ 1 m	108 dB @ 1 m
Visual Alarm		Wraparound LED	Wraparound LED
Boot colors		Yellow	Black
Pelican Case		Optional	optional

12.1 AreaRAE Pro Monitors (Model PGM-6560X)

AreaRAE Pro is a wireless, transportable area monitor that can simultaneously detect toxic and combustible gases, volatile organic chemicals, and meteorological factors that affect the speed and direction of the gas.

Monitor-Only Configuration Includes:
- AREARAE Pro monitor with sensors, battery and wireless options
  as specified, and protective rubber boot and filter(s) installed
- Power Adapter,AC/DC,90-264V Input,12VDC/7.5A 90W Output)
- Power cord, AC, 125 V, 10 A, US Plug, 1.8 m
- Power cord, AC, 125 V, 10 A, UK plug, 1.8 m
- Power cord, AC, 125 V, 10 A, EU Plug, 1.8 m
- External Battery Charger
- PC communication cable
- Calibration adapter
- Screw Driver, Slotted
- Screw Driver, Phillips #6
- Tool kit for 7R+ PID sensor
- Opening Tool kit for 4R+ PID sensor
- PID Lamp Cleaning kit (isopropanol)
- 3 spare external filters
- Quick Start Guide
- CD with documentation
- ProRAE Studio II Instrument Configuration & Data Management Software
- Calibration and test certificate
- Warranty / registration card

Additional accessories, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portables Pricing Guide

Listed below are some common configurations of the AreaRAE Pro monitors.
For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Part Number	Description	ISM Long range	Wi-Fi	Short Range Mesh	7R+ PID Sensor	LEL - O_2 - CO - H_2S	Gamma Sensor	RAEMet	EUR PG
W01A10000105607901	AreaRAE Pro-CSA / non-wireless / PID ppb / LEL / O_2 / CO / H_2S / RAEMet				•	•		•	€ 6,774.00 C2
W01A16000105607901	AreaRAE Pro-CSA / ISM 2.4GHz / PID ppb / LEL / O_2 / CO / H_2S / RAEMet	•			•	•		•	€ 9,350.00 C2
W01A16020105607901	AreaRAE Pro-CSA / ISM 2.4GHz / Mesh 868MHz / PID ppb / LEL / O_2 / CO / H_2S / RAEMet	•		•	•	•		•	€ 9,622.00 C2
W01A16120105607901	AreaRAE Pro-CSA / ISM 2.4GHz / Wi-Fi / Mesh 868MHz / PID ppb / LEL / O_2 / CO / H_2S / RAEMet	•	•	•	•	•		•	€ 9,894.00 C2
W01A10000105607911	AreaRAE Pro-CSA / non-wireless / PID ppb / LEL / O_2 / CO / H_2S / Gamma / RAEMet				•	•	•	•	€ 9,711.00 C2
W01A16000105607911	AreaRAE Pro-CSA / ISM 2.4GHz / PID ppb / LEL / O_2 / CO / H_2S / Gamma / RAEMet	•			•	•	•	•	€ 12,287.00 C2
W01A16020105607911	AreaRAE Pro-CSA / ISM 2.4GHz / Mesh 868MHz / PID ppb / LEL / O_2 / CO / H_2S / Gamma / RAEMet	•		•	•	•	•	•	€ 12,559.00 C2
W01A16120105607911	AreaRAE Pro-CSA / ISM 2.4GHz / Wi-Fi / Mesh 868MHz / PID ppb / LEL / O_2 / CO / H_2S / Gamma / RAEMet	•	•	•	•	•	•	•	€ 12,831.00 C2

12.2 AreaRAE Pro (Model PGM-6560X) Configuration Guide

W01A	R	A	B	C	DD	E	F	G	H	J	K	M	N
AreaRAE Pro	Certification	Primary Radio-ISM	Primary Radio-WiFi	Secondary Radio-Mesh	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Radiation Sensor	RAEMet

R	Certification of Safety	EUR
1	CSA	€ 4,835.00

A	Primary Radio - ISM	EUR
0	None	€ 0.00
6	WIRELESS(RF) DATA TRANSMISSION (Freewave-2.4GHz)	€ 2,576.00

Note: ISM and Wi-Fi radios can be physically mounted together in the unit but cannot work at the same time

B	Primary Radio - Wi-Fi	EUR
0	None	€ 0.00
1	Wi-Fi	€ 272.00

C	Secondary Radio - Mesh	EUR
0	None	€ 0.00
2	Mesh 868MHz	€ 272.00

	Sensor Options		DD	E	F	G	H	J	K	EUR
00/0	Dummy	Dummy sensor								€ 0.00
7R+ PID Sensor										
01	PID	10.6eV PID (10ppb resolution)								€ 1,130.00
NDIR & 4R+ PID Sensors										
4	PID	9.8eV PID (0.1ppm resolution)								€ 652.00
S	CO_2	NDIR sensor								€ 751.00
Combustibles Sensors										
5	LEL	Catalytic Bead Sensor								€ 191.00
Electrochemical Sensors										
6	Liq. O_2	Liquid Oxygen Sensor								€ 236.00
Electrochemical Sensors										
7	H_2S**	Hydrogen Sulfide Sensor								€ 191.00
8	H_2S HR**	Ext. Range Hydrogen Sulfide Sensor								€ 191.00
9	CO	Carbon Monoxide Sensor								€ 191.00
A	CO HR	Ext. Range Carbon Monoxide sensor								€ 281.00
B	CO w/o H_2	Comp. H2 Carbon Monoxide Sensor								€ 326.00
C	SO_2	Sulfur Dioxide Sensor								€ 281.00
D	NO***	Nitric Oxide Sensor								€ 326.00
E	NO_2	Nitrogen Dioxide Sensor								€ 326.00
F	Cl_2	Chlorine Sensor								€ 281.00
G	HCN	Hydrogen Cyanide Sensor								€ 382.00
H	NH_3***	Ammonia Sensor								€ 382.00
J	PH_3	Phosphine Sensor								€ 382.00
K	CLO_2**	Chlorine Dioxide Sensor								€ 382.00
L	ETO-A	Ethylene Oxide Sensor								€ 281.00
M	ETO-B	Ethylene Oxide Sensor								€ 281.00
N	ETO-C	Ethylene Oxide Sensor								€ 281.00
P	H_2	Hydrogene Sensor								€ 417.00
Q	HCL	Hydrogen Chloride Sensor								€ 652.00
R	HF	Hydrogen Fluoride Sensor								€ 652.00

Notes:

* When ordering sensors, please select the lower number first

** ClO_2 and H_2S sensors cannot be installed in the same instrument

*** NO and NH_3 sensors cannot be installed in the same instrument

M	Radiation Sensor option	EUR
0	None	€ 0.00
1	Gamma Sensor	€ 2,937.00

N	RAEMet Option	EUR
1	Wind Sensor	€ 0.00

W01A	R	A	B	C	DD	E	F	G	H	J	K	M	N
													1

Example:

AreaRAE Pro-CSA / ISM 2.4GHz / Mesh 868MHz / PID ppb / LEL / O₂ / CO / H₂S / RAEMet

W01A	1	6	0	0	1	0	5	6	0	7	9	0	1

→ 4835+2576+0+0+1130+0+191+236+0+191+191+0+0 = EUR 9350

AreaRAE Pro-CSA / non-wireless / PID ppb / LEL / O₂ / CO / H₂S / Gamma / RAEMet

W01A	1	6	0	0	01	0	5	6	0	7	9	1	1

→ 4835+2576+0+0+1130+0+191+236+0+191+191+2937+0 = EUR 12287

12.3 AreaRAE Plus Monitors (Model PGM-6520X)

AreaRAE Plus is a wireless, transportable area monitor that can simultaneously detect toxic and combustible gases, volatile organic chemicals, and meteorological factors that affect the speed and direction of the gas.

Monitor-Only Configuration Includes:
- AREARAE Plus monitor with sensors, battery and wireless options as specified, and protective rubber boot and filter(s) installed
- Power Adapter,AC/DC,90-264V Input,12VDC/7.5A 90W Output)
- Power cord,AC,125V,10A,US Plug, 1.8m
- Power cord,AC,125V,10A,UK plug, 1.8m
- Power cord,AC,125V,10A,EU Plug, 1.8m
- External Battery Charger
- PC communication cable
- Calibration adapter
- Screw Driver, Slotted
- Screw Driver, Phillips #6
- Tool kit for 7R+ PID sensor
- Opening Tool kit for 4R+ PID sensor
- PID Lamp Cleaning kit (isopropanol)
- 3 spare external filters
- Quick Start Guide
- CD with documentation
- ProRAE Studio II Instrument Configuration & Data Management Software
- Calibration and test certificate
- Warranty / registration card

Additional accessories, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portables Pricing Guide

Listed below are some common configurations of the AREARAE Plus monitors.
For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Part Number	Description	ISM Long range	Wi-Fi	Short Range Mesh	7R+ PID Sensor	LEL - O_2 - CO - H_2S	Gamma Sensor	RAEMet	EUR PG
W01B10000205607900	AreaRAE Plus-CSA / non-wireless / PID ppm / LEL / O_2 / CO / H_2S				•	•			€ 5,229.00 C2
W01B10000205607901	AreaRAE Plus-CSA / non-wireless / PID ppm / LEL / O_2 / CO / H_2S / RAEMet				•	•		•	€ 6,586.00 C2
W01B16000205607900	AreaRAE Plus-CSA / ISM 2.4GHz / PID ppm / LEL / O_2 / CO / H_2S	•			•	•			€ 7,805.00 C2
W01B16000205607901	AreaRAE Plus-CSA / ISM 2.4GHz / PID ppm / LEL / O_2 / CO / H_2S / RAEMet	•			•	•		•	€ 9,162.00 C2
W01B16020205607900	AreaRAE Plus-CSA / ISM 2.4GHz / Mesh 868MHz / PID ppm / LEL / O_2 / CO / H_2S	•		•	•	•			€ 8,077.00 C2
W01B16020205607901	AreaRAE Plus-CSA / ISM 2.4G / 868MHz / PID / LEL / O_2 / H_2S / CO / RAEMet	•		•	•	•		•	€ 9,434.00 C3
W01B16120205607900	AreaRAE Plus-CSA / ISM 2.4G / WiFi / 868MHz / PID / LEL / O_2 / H_2S / CO	•	•	•	•	•			€ 8,349.00 C5
W01B16120205607901	AreaRAE Plus-CSA / ISM 2.4G / WiFi / 868MHz / PID / LEL / O_2 / H_2S / CO / RAEMet	•	•	•	•	•		•	€ 9,706.00 C4

12.4 AreaRAE Plus (Model PGM-6520) Configuration Guide

W01B	R	A	B	C	DD	E	F	G	H	J	K	0	N
AreaRAE Plus	Certification	Primary Radio-ISM	Primary Radio-WiFi	Secondary Radio-Mesh	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Always	RAEMet

R	Certification of Safety	EUR
1	CSA	€ 3,479.00

A	Primary Radio - ISM	EUR
0	None	€ 0.00
6	WIRELESS(RF) DATA TRANSMISSION (Freewave-2.4GHz)	€ 2,576.00

Note: ISM and Wi-Fi radios can be physically mounted together in the unit but cannot work at the same time

B	Primary Radio - Wi-Fi	EUR
0	None	€ 0.00
1	Wi-Fi	€ 272.00

C	Secondary Radio - Mesh	EUR
0	None	€ 0.00
2	Mesh 868MHz	€ 272.00

	Sensor Options		DD	E	F	G	H	J	K	EUR
00/0	Dummy	Dummy sensor								€ 0.00
7R+ PID Sensor										
02	PID	10.6eV PID (0.1ppm resolution)			■	■	■	■	■	€ 941.00
NDIR & 4R+ PID Sensors										
4	PID	9.8eV PID (0.1ppm resolution)	■		■	■	■	■	■	€ 652.00
S	CO_2	NDIR sensor	■		■	■	■			€ 751.00
Combustibles Sensors										
5	LEL	Catalytic Bead Sensor	■			■	■			€ 191.00
Electrochemical Sensors										
6	O_2	Liquid Oxygen Sensor	■				■			€ 236.00
Electrochemical Sensors										
7	H_2S**	Hydrogen Sulfide Sensor	■						■	€ 191.00
8	H_2S HR**	Ext. Range Hydrogen Sulfide Sensor	■							€ 191.00
9	CO	Carbon Monoxide Sensor	■							€ 191.00
A	CO HR	Ext. Range Carbon Monoxide sensor	■							€ 281.00
B	CO w/o H_2	Comp. H2 Carbon Monoxide Sensor	■							€ 326.00
C	SO_2	Sulfur Dioxide Sensor	■							€ 281.00
D	NO***	Nitric Oxide Sensor	■							€ 326.00
E	NO_2	Nitrogen Dioxide Sensor	■							€ 326.00
F	Cl_2	Chlorine Sensor	■							€ 281.00
G	HCN	Hydrogen Cyanide Sensor	■							€ 382.00
H	NH_3***	Ammonia Sensor	■							€ 382.00
J	PH_3	Phosphine Sensor	■							€ 382.00
K	CLO_2**	Chlorine Dioxide Sensor	■							€ 382.00
L	ETO-A	Ethylene Oxide Sensor	■							€ 281.00
M	ETO-B	Ethylene Oxide Sensor	■							€ 281.00
N	ETO-C	Ethylene Oxide Sensor	■							€ 281.00
P	H_2	Hydrogene Sensor	■							€ 417.00
Q	HCL	Hydrogen Chloride Sensor	■	■	■					€ 652.00
R	HF	Hydrogen Fluoride Sensor	■	■	■					€ 652.00

Notes:

* When ordering sensors, please select the lower number first

** *ClO_2 and H_2S* sensors cannot be installed in the same instrument

*** *NO and NH_3* sensors cannot be installed in the same instrument

N	RAEMet	EUR
0	Empty	€ 0.00
1	Wind Sensor Module	€ 1,357.00

W01B	R	A	B	C	DD	E	F	G	H	J	K	0	N

Example:

AreaRAE Plus-CSA / non-wireless / PID ppm / LEL / O₂ / CO / H₂S

W01B	1	0	0	0	02	0	5	6	0	7	9	0	0

→ 3479+0+0+0+941+0+191+236+0+191+191+0 = EUR 5229

AreaRAE Plus-CSA / ISM 2.4GHz / PID ppm / LEL / O₂ / CO / H₂S / RAEMet

W01B	1	6	0	0	02	0	5	6	0	7	9	0	1

→ 3479+2576+0+0+941+0+191+236+0+191+191+1357 = EUR 9162

12. Area Monitoring - AreaRAE Plus and AreaRAE Pro (PGM-65XXX)

12.5 RDK Detector Kit AreaRAE Pro Monitors (Model PGM-6560X)

The Rapid Deployment Kit (RDK) Detector Package includes 1 RAELink3 (to be used as a repeater), and 4 versatile GPS-enabled AreaRAE Pro monitors each with up to 7 sensors and RAEmets. With The RDK, you have everything you need to create a perimeter and set up a command station up to two miles from the site. It all fits into a military-grade protective case, which charges all the batteries during storage. The wireless network can scale up to 64 monitors, and the host controller can push the data in real time to any location via an Internet connection, for situational awareness in minutes.

RDK Detector Kit Includes:

• 1 Pelican case with precut foam, embedded charing systems for 4 AREARAE and lead organizer for Accessories storage/ transportation equipped with:
• 4 AreaRAE Plus monitors with sensors, battery and wireless options
as specified, and protective rubber boot and filter(s) installed
• 1 RAELink3 (to be used as a repeater)
• Power Adapter, AC/DC, 90-264 V Input, 12 VDC/7.5 A 90 W Output
• Power cord, AC, 125 V, 10 A, US Plug, 1.8 m
• Power cord, AC, 125 V, 10 A, UK plug, 1.8 m
• Power cord, AC, 125 V, 10 A, EU Plug, 1.8 m
• 1 One to Five charging cable
• 4 External Battery Chargers
• 1 PC communication cable
• 1 Calibration adapter
• 1 Screw Driver, Slotted
• 1 Screw Driver, Phillips #6
• 1 Tool kit for 7R+ PID sensor
• 1 Opening Tool kit for 4R+ PID sensor
• 1 PID Lamp Cleaning kit (isopropanol)
• 10 spare external filters
• 1 SensorRAE 4R+
• Quick Start Guide
• CD with documentation
• RDK Accessory List (laminated card)
• ProRAE Studio II Instrument Configuration & Data Management Software
• Calibration and test certificate
• Warranty / registration card
• not include 4 ProRAE Guardian Licenses - Tier 3 Concurrent Instruments, order seperately

Additional accessories, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portables Pricing Guide

Listed below are some common configurations of the RDK Detector Kit with AREARAE Pro monitors.
For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Part Number	Description	ISM Long range	Wi-Fi	Short Range Mesh	7R+ PID Sensor	LEL - O_2 - CO - H_2S	Gamma Sensor	RAEMet	EUR PG
W01R16000105607901	AreaRAE Pro RDK-CSA / ISM 2.4GHz / PID ppb / LEL / O_2 / CO / H_2S /	•			•	•		•	€ 42,080.00 C2
W01R16000105607911	AreaRAE Pro RDK-CSA / ISM 2.4GHz / PID ppb / LEL / O_2 / CO / H_2S / Gamma / RAEMet	•			•	•	•	•	€ 53,827.00 C2

12.6 RDK Detector Kit - AreaRAE Pro (PRG licenses not included) Configuration Guide

W01R	R	A	B	C	DD	E	F	G	H	J	K	M	N
AreaRAE Pro RDK	Certification	Primary Radio-ISM	Primary Radio-WiFi	Secondary Radio-Mesh	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Radiation Sensor	RAEMet

R	Certification of Safety		EUR
1	CSA		€ 24,035.00

Note: ISM and Wi-Fi radios can be physically mounted together in the unit but cannot work at the same time

A	Primary Radio - ISM	EUR
0	None	€ 0.00
6	WIRELESS(RF) DATA TRANSMISSION (Freewave-2.4GHz)	€ 10,302.00

B	Primary Radio - Wi-Fi	EUR
0	None	€ 0.00
1	Wi-Fi	€ 1,085.00

C	Secondary Radio - Mesh	EUR
0	None	€ 0.00
2	Mesh 868MHz	€ 1,085.00

	Sensor Options		DD	E	F	G	H	J	K	EUR
00/0	Dummy	Dummy sensor								€ 0.00
7R+ PID Sensor										
01	PID	10.6eV PID (10ppb resolution)								€ 4,519.00
NDIR & 4R+ PID Sensors										
4	PID	9.8eV PID (0.1ppm resolution)								€ 2,603.00
S	CO_2	NDIR sensor								€ 3,002.00
Combustibles Sensors										
5	LEL	Catalytic Bead Sensor								€ 761.00
Electrochemical Sensors										
6	O_2	Liquid Oxygen Sensor								€ 941.00
Electrochemical Sensors										
7	H_2S**	Hydrogen Sulfide Sensor								€ 761.00
8	H_2S HR**	Ext. Range Hydrogen Sulfide Sensor								€ 761.00
9	CO	Carbon Monoxide Sensor								€ 761.00
A	CO HR	Ext. Range Carbon Monoxide sensor								€ 1,122.00
B	CO w/o H_2	Comp. H2 Carbon Monoxide Sensor								€ 1,302.00
C	SO_2	Sulfur Dioxide Sensor								€ 1,122.00
D	NO***	Nitric Oxide Sensor								€ 1,302.00
E	NO_2	Nitrogen Dioxide Sensor								€ 1,302.00
F	Cl_2	Chlorine Sensor								€ 1,122.00
G	HCN	Hydrogen Cyanide Sensor								€ 1,520.00
H	NH_3***	Ammonia Sensor								€ 1,520.00
J	PH_3	Phosphine Sensor								€ 1,520.00
K	CLO_2**	Chlorine Dioxide Sensor								€ 1,520.00
L	ETO-A	Ethylene Oxide Sensor								€ 1,122.00
M	ETO-B	Ethylene Oxide Sensor								€ 1,122.00
N	ETO-C	Ethylene Oxide Sensor								€ 1,122.00
P	H_2	Hydrogene Sensor								€ 1,664.00
Q	HCL	Hydrogen Chloride Sensor								€ 2,603.00
R	HF	Hydrogen Fluoride Sensor								€ 2,539.00

Notes:

* When ordering sensors, please select the lower number first

** *ClO_2 and H_2S* sensors cannot be installed in the same instrument

*** *NO and NH_3* sensors cannot be installed in the same instrument

M	Radiation Sensor option	EUR
0	None	€ 0.00
1	Gamma Sensor	€ 11,747.00

N	RAEMet Option	EUR
1	Wind Sensor	€ 0.00

W01R	R	A	B	C	DD	E	F	G	H	J	K	M	N

Example:

AreaRAE Pro RDK-CSA / ISM 2.4GHz / PID ppb / LEL / O₂ / CO / H₂S / RAEMet

W01R	1	6	0	0	01	0	5	6	0	7	9	0	1

→ 24035+10302+0+0+4519+0+761+941+0+761+761+0+0 = EUR 42080

AreaRAE Pro RDK-CSA / ISM 2.4GHz / PID ppb / LEL / O₂ / CO / H₂S / Gamma / RAEMet

W01R	1	6	0	0	01	0	5	6	0	7	9	1	1

→ 24035+10302+0+0+4519+0+761+941+0+761+761+11747+0 = EUR 53827

12.7 RDK Detector Kit AreaRAE Plus Monitors (Model PGM-6520X)

The Rapid Deployment Kit (RDK) Detector Package includes 1 RAELink3 (to be used as a repeater), 4 versatile GPS-enabled AreaRAE Plus monitors, each with up to 7 sensors and RAEmets. With The RDK, you have everything you need to create a perimeter and set up a command station up to two miles from the site. It all fits into a military-grade protective case, which charges all the batteries during storage. The wireless network can scale up to 64 monitors, and the host controller can push the data in real time to any location via an Internet connection, for situational awareness in minutes.

RDK Detector Kit Includes:
• 1 Pelican case with precut foam, embedded charing systems for 4 AreaRAE and lead organizer for Accessories storage/ transportation equipped with:
• 4 AreaRAE Plus monitors with sensors, battery and wireless options
as specified, and protective rubber boot and filter(s) installed
• 1 RAELink3 (to be used as a repeater)
• Power Adapter, AC/DC, 90-264 V Input, 12 VDC/7.5 A 90 W Output
• Power cord, AC, 125 V, 10 A, US Plug, 1.8 m
• Power cord, AC, 125 V, 10 A, UK plug, 1.8 m
• Power cord, AC, 125 V, 10 A, EU Plug, 1.8 m
• 1 One to Five charging cable
• 4 External Battery Chargers
• 1 PC communication cable
• 1 Calibration adapter
• 1 Screw Driver, Slotted
• 1 Screw Driver, Phillips #6
• 1 Tool kit for 7R+ PID sensor
• 1 Opening Tool kit for 4R+ PID sensor
• 1 PID Lamp Cleaning kit (isopropanol)
• 10 spare external filters
• 1 SensorRAE 4R+
• Quick Start Guide
• CD with documentation
• RDK Accessory List (laminated card)
• ProRAE Studio II Instrument Configuration & Data Management Software
• Calibration and test certificate
• Warranty / registration card
• not include 4 ProRAE Guardian Licenses - Tier 3 Concurrent Instruments, order seperately

Additional accessories, gas kits, individual gases and regulators are listed under Multi-Gas Accessories and Multi-Gas Calibration sections of the Portables Pricing Guide

Listed below are some common configurations of the RDK Detector Kit with AreaRAE Plus monitors.
For others, please use the Assemble-to-Order (ATO) Configuration Guide below.

Part Number	Description	ISM Long range	Wi-Fi	Short Range Mesh	7R+ PID Sensor	LEL - O_2 - CO - H_2S	Gamma Sensor	RAEMet	EUR PG
W01K16000205607900	AreaRAE Plus RDK-CSA / ISM 2.4GHz / PID ppm / LEL / O_2 / CO / H_2S	•			•	•			€ 35,899.00 C2
W01K16000205607901	AreaRAE Plus RDK-CSA / ISM 2.4GHz / PID ppm / LEL / O_2 / CO / H_2S / RAEMet	•			•	•		•	€ 41,321.00 C2

12.8 RDK Detector Kit - AreaRAE Plus (PRG licenses not included) Configuration Guide

W01K	R	A	B	C	DD	E	F	G	H	J	K	0	N
AreaRAE Plus RDK	Certification	Primary Radio-ISM	Primary Radio-WiFi	Secondary Radio-Mesh	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Always	RAEMet

R	Certification of Safety	EUR
1	CSA	€ 18,613.00

A	Primary Radio - ISM	EUR
0	None	€ 0.00
6	WIRELESS(RF) DATA TRANSMISSION (Freewave-2.4GHz)	€ 10,302.00

Note: ISM and Wi-Fi radios can be physically mounted together in the unit but cannot work at the same time

B	Primary Radio - Wi-Fi	EUR
0	None	€ 0.00
1	Wi-Fi	€ 1,085.00

C	Secondary Radio - Mesh	EUR
0	None	€ 0.00
2	Mesh 868MHz	€ 1,085.00

	Sensor Options		DD	E	F	G	H	J	K	EUR
00/0	Dummy	Dummy sensor								€ 0.00
	7R+ PID Sensor									
02	PID	10.6eV PID (0.1ppm resolution)								€ 3,760.00
	NDIR & 4R+ PID Sensors									
4	PID	9.8eV PID (0.1ppm resolution)								€ 2,603.00
S	CO_2	NDIR sensor								€ 3,002.00
	Combustibles Sensors									
5	LEL	Catalytic Bead Sensor								€ 761.00
	Electrochemical Sensors									
6	O_2	Liquid Oxygen Sensor								€ 941.00
	Electrochemical Sensors									
7	H_2S**	Hydrogen Sulfide Sensor								€ 761.00
8	H_2S HR**	Ext. Range Hydrogen Sulfide Sensor								€ 761.00
9	CO	Carbon Monoxide Sensor								€ 761.00
A	CO HR	Ext. Range Carbon Monoxide sensor								€ 1,122.00
B	CO w/o H_2	Comp. H2 Carbon Monoxide Sensor								€ 1,302.00
C	SO_2	Sulfur Dioxide Sensor								€ 1,122.00
D	NO***	Nitric Oxide Sensor								€ 1,302.00
E	NO_2	Nitrogen Dioxide Sensor								€ 1,302.00
F	Cl_2	Chlorine Sensor								€ 1,122.00
G	HCN	Hydrogen Cyanide Sensor								€ 1,520.00
H	NH_3***	Ammonia Sensor								€ 1,520.00
J	PH_3	Phosphine Sensor								€ 1,520.00
K	CLO_2**	Chlorine Dioxide Sensor								€ 1,520.00
L	ETO-A	Ethylene Oxide Sensor								€ 1,122.00
M	ETO-B	Ethylene Oxide Sensor								€ 1,122.00
N	ETO-C	Ethylene Oxide Sensor								€ 1,122.00
P	H_2	Hydrogene Sensor								€ 1,664.00
Q	HCL	Hydrogen Chloride Sensor								€ 2,603.00
R	HF	Hydrogen Fluoride Sensor								€ 2,539.00

Notes:

* When ordering sensors, please select the lower number first

** *ClO_2 and H_2S* sensors cannot be installed in the same instrument

*** *NO and NH_3* sensors cannot be installed in the same instrument

N	RAEMet	EUR
0	Empty	€ 0.00
1	Wind Sensor Module	€ 5,422.00

W01K	R	A	B	C	DD	E	F	G	H	J	K	0	N

Example:

AreaRAE Plus RDK-CSA / ISM 2.4GHz / PID ppm / LEL / O_2 / CO / H_2S

W01K	1	6	0	0	02	0	5	6	0	7	9	0	0

→ 18613+10302+0+0+3760+0+761+941+0+761+761+0 = EUR 35899

AreaRAE Plus RDK-CSA / ISM 2.4GHz / PID ppm / LEL / O_2 / CO / H_2S / RAEMet

W01K	1	6	0	0	02	0	5	6	0	7	9	0	1

→ 18613+10302+0+0+3760+0+761+941+0+761+761+5422 = EUR 41321

12.9 RAELink3 2.4GHz Wireless Modem for AreaRAE Plus and Pro

The RAELink3 2.4GHz modem allows integration of AreaRAE Plus and Pro monitors with ProRAE Guardian software.
An AreaRAE Plus or Pro linked with a RAELink3 2.4GHz modem can communicate sensor data to a command center's PC running ProRAE Guardian software up to 1.2 miles (2km) away. One RAElink3 2.4GHz can connect up to 64 AreaRAE Plus and/or AreaRAE Pro monitors using ProRAE Guardian system

RAELink3 Communication Kit Includes:
• RAELink3 modem equipped with GPS, Bluetooth, and long-range radio
• Rugged antenna
• Charging adapter and AC/DC adapter
• Alkaline battery pack
• Hard transport case
• Quick reference guide and resource CD
• RS-232 cable

Part Number	Description	EUR PG
029-0607-000	RAELink3 Kit - Multi-function modem with GPS can operate as a Remote modem with wireless-enabled portables, or as a Repeater in an AreaRAE system to bypass obstacles, or as a Host modem to communicate with up to 12 remote devices. Kit includes a RAELink3 modem with complete accessories for all three modes of operation (2.4GHz).	€ 2,366.00 C3

ProRAE Guardian

RAE Link3 2.4 GHz Host

AreaRAE Plus / Pro

12. Area Monitoring - AreaRAE Plus and AreaRAE Pro (PGM-65XXX)

12.10 AreaRAE Pro / Plus Sensors, Accessories, and Replacement Parts

Replacement Sensors - Dummy Sensors

Part Number	Description	Sensor	Compatible Instruments	EUR PG
C03-2028-000	4R+ Dummy sensor (Required if fewer than six 4R+ sensors installed)	4R+ Dummy	MultiRAE Family, AreaRAE Pro / Plus	€ 11.00 D2
C03-2028-005	4R+ Dummy sensor (Pack of 5) (Required if fewer than six 4R+ sensors installed)	4R+ Dummy	MultiRAE Family, AreaRAE Pro / Plus	€ 29.00 D2
W01-2041-000	7R+ Dummy sensor (Required if fewer than two 7R+ sensors installed)	7R+ Dummy	MultiRAE Family, AreaRAE Pro / Plus	€ 11.00 D2
W01-2041-005	7R+ Dummy sensor (Pack of 5) (Required if fewer than two 7R+ sensors installed)	7R+ Dummy	MultiRAE Family, AreaRAE Pro / Plus	€ 29.00 D2

Replacement Sensors - PID (Photoionization Detector) Sensors

Part Number	Description	Sensor	Compatible Instruments	EUR PG
C04-0960-001	7R+ PID ppb sensor (10 ppb - 2,000 ppm; 10 ppb res.; 10.6 eV lamp)	7R+ PID, ppb, 10.6 eV	AreaRAE Pro	€ 1,130.00 D2
C04-0960-000	7R+ PID ppb sensor (0.1 ppm - 5,000 ppm; 0.1 ppm res.; 10.6 eV lamp)	7R+ PID, ppm, 10.6 eV	AreaRAE Plus	€ 941.00 D2
C03-0912-001	4R+ PID ppb sensor (10 ppb - 2,000 ppm; 10 ppb res.; 10.6 eV lamp)	4R+ PID, ppb, 10.6 eV	MultiRAE Pro AreaRAE Pro	€ 677.00 D2
C03-0912-010	PID sensor (0.1 - 2,000 ppm; 50 ppb res.; 9.8 eV lamp)	4R+ PID, ppm, 9.8 eV	MultiRAE Benzene AreaRAE Pro / plus	€ 697.00 D2
C04-3004-000	Detector 7R+ PID Sensor	7R+ PID	AreaRAE Pro	€ 65.00 D2
050-0301-001	7R+ PID lamp ppb	7R+ PID, ppb, 10.6 eV	AreaRAE Pro	€ 200.00 D2
050-0301-000	7R+ PID lamp ppm	7R+ PID, ppm, 10.6 eV	AreaRAE Plus	€ 182.00 D2

Replacement Sensors - Electrochemical Toxic and Oxygen Sensors

Part Number	Description	Sensor	Compatible Instruments	EUR PG
C03-0950-000	Ammonia (NH_3) sensor (0-100 ppm; 1 ppm res.)	NH_3	All MultiRAE Models, AreaRAE Pro / Plus	€ 392.00 D2
C03-0903-000	Carbon Monoxide (CO) extended-range sensor (0-2,000 ppm; 10 ppm res.)	CO, HR	All MultiRAE Models, AreaRAE Pro / Plus	€ 281.00 D2
C03-0906-000	Carbon Monoxide (CO) sensor (0-500 ppm; 1 ppm res.)	CO	All MultiRAE Models, AreaRAE Pro / Plus	€ 175.00 D2
C03-0979-000	Carbon Monoxide (CO) sensor (H_2-compensated) (0-2,000 ppm; 10 ppm res.)	CO comp. H_2	All MultiRAE Models, AreaRAE Pro / Plus	€ 326.00 D2
C03-0978-000	Chlorine (Cl_2) sensor (0-50 ppm; 0.1 ppm res.)	Cl_2	All MultiRAE Models, AreaRAE Pro / Plus	€ 281.00 D2
C03-0956-000	Chlorine Dioxide (ClO_2) sensor (0-1 ppm; 0.03 ppm res.)	ClO_2	All MultiRAE Models, AreaRAE Pro / Plus	€ 382.00 D2
C03-0954-000	Ethylene Oxide (EtO-A) sensor (0 - 100 ppm; 1 ppm res.)	EtO-A	All MultiRAE Models, AreaRAE Pro / Plus	€ 281.00 D2
C03-0922-100	Ethylene Oxide (EtO-B) sensor (0 - 10 ppm, 0.1 ppm res.)	EtO-B	All MultiRAE Models, AreaRAE Pro / Plus	€ 281.00 D2
C03-0923-100	Ethylene Oxide (EtO-C) extended-range sensor (0 - 500 ppm; 10 ppm res.)	EtO-C, HR	MultiRAE Lite Diffusion AreaRAE Pro / Plus	€ 382.00 D2
C03-0981-000	Hydrogen (H_2) sensor (0-1,000 ppm; 10 ppm res.)	H_2	MultiRAE Lite Diffusion AreaRAE Pro / Plus	€ 382.00 D2
C03-0952-000	Hydrogen Chloride (HCL) sensor	HCL	AreaRAE Pro / Plus	€ 652.00 D2
C03-0949-000	Hydrogen Cyanide (HCN) sensor (0-50 ppm; 0.5 ppm res.)	HCN	All MultiRAE Models, AreaRAE Pro / Plus	€ 382.00 D2
C03-0953-000	Hydrogen Fluoride (HF) sensor - Minimum detectable 0.5 ppm	HF	AreaRAE Pro / Plus	€ 652.00 D2
C03-0904-000	Hydrogen Sulfide (H_2S) extended-range sensor (up to 1,000 ppm reading)	H_2S, HR	MultiRAE Lite Diffusion AreaRAE Pro / Plus	€ 175.00 D2
C03-0907-001	Hydrogen Sulfide (H_2S) sensor (0-100 ppm; 0.1 ppm res.)	H_2S	All MultiRAE Models, AreaRAE Pro / Plus	€ 175.00 D2
C03-0974-000	Nitric Oxide (NO) sensor (0-250 ppm; 0.5 ppm res.)	NO	All MultiRAE Models, AreaRAE Pro / Plus	€ 326.00 D2
C03-0975-000	Nitrogen Dioxide (NO_2) sensor (0-20 ppm; 0.1 ppm res.)	NO_2	All MultiRAE Models, AreaRAE Pro / Plus	€ 326.00 D2
C03-0908-001	Liquid Oxygen (O_2) sensor	O_2 Liq	AreaRAE Pro / Plus	€ 281.00 D2
C03-0976-000	Phosphine (PH_3) sensor (0-20 ppm; 0.1 ppm res.)	PH_3	All MultiRAE Models, AreaRAE Pro / Plus	€ 382.00 D2
C03-0973-100	Sulfur Dioxide (SO_2) sensor (0-20 ppm; 0.1 ppm res.)	SO_2	All MultiRAE Models, AreaRAE Pro / Plus	€ 281.00 D2

12. Area Monitoring - AreaRAE Plus and AreaRAE Pro (PGM-65XXX)

Replacement Sensors - Combustible Sensor

Part Number	Description	Sensor	Compatible Instruments	EUR PG
C03-0911-000	Combustible catalytic bead % LEL sensor	LEL	All MultiRAE Models, AreaRAE Pro / Plus	€ 175.00 D2

Replacement Sensors - NDIR Sensor

Part Number	Description	Sensor	Compatible Instruments	EUR PG
C03-0961-000	Carbon dioxide (CO_2) NDIR sensor (up to 50,000 ppm)	CO_2	All MultiRAE Models (except MultiRAE Benzene), AreaRAE Pro / Plus	€ 751.00 D2

Replacement Sensors - RAEMet

Part Number	Description	Sensor	Compatible Instruments	EUR PG
W01-0302-000	RAEMet Sensor Kit	RAEMet	AreaRAE Pro / Plus	€ 1,357.00 D2

Accessories and Replacement Parts - Power, PC Communication

Part Number	Description	Compatible Instruments	EUR PG
W01-3007-100	Li-Ion Battery	AreaRAE Pro / Plus	€ 407.00 D2
500-0141-000	Power adapter,AC/DC,90-264V Input,12VDC/7.5A 90W Output	AreaRAE Pro / Plus	€ 159.00 D2
410-0036-005	Power cord (EU plug)	AreaRAE Pro / Plus	€ 28.00 D2
410-0036-000	Power cord (US Plug)	AreaRAE Pro / Plus	€ 28.00 D2
410-0036-004	Power cord (UK plug)	AreaRAE Pro / Plus	€ 28.00 D2
W01-3005-000	Li-Ion Battery Stand alone Charger	AreaRAE Pro / Plus	€ 82.00 D2
410-0228-000	One to five charger cable for external battery charger	AreaRAE Pro / Plus	€ 47.00 D2
029-3018-000	Cable 1 IN-5 OUT (RDK embedded charging cable)	AreaRAE Pro / Plus	€ 92.00 D2
410-0086-000	PC Communications Cable (USB 2.0, Male A to Male B)	AreaRAE Pro / Plus	€ 27.00 D2
550-7037-000	Antenna,ISM,Freewave 2400	AreaRAE Pro / Plus	€ 236.00 D2

Accessories and Replacement Parts - Calibration and Maintenance Accessories

Part Number	Description	Compatible Instruments	EUR PG
008-3022-010	External Water trap filter 25mm without Adapter (pack of 10) for pumped model	AreaRAE Pro / Plus	€ 29.00 D1
W01-3019-000	VOC filter for CO sensor (pack of 5)	AreaRAE Pro / Plus	€ 20.00 D1
W01-3003-000	Calibration Tube for AREARAE Pro / Plus	AreaRAE Pro / Plus	€ 24.00 D1
W01-3020-000	Gas Exhaust collector	AreaRAE Pro / Plus	€ 28.00 D1
W01-0301-000	Zeroing Kit for AreaRAE Pro (PID ppb)	AreaRAE Pro / Plus	€ 73.00 D1
W01-3011-000	Tube adapter for External PID zeroing filter adapter	AreaRAE Pro / Plus	€ 11.00 D1
025-2004-010	External PID zeroing filter (box of 10)	AreaRAE Pro / Plus	€ 37.00 D1
025-3002-000	External PID zeroing filter adapter (for 7-mm O.D. tubes on Flex-I-Probe)	AreaRAE Pro / Plus	€ 56.00 D1
490-2900-000	Screw driver phillips #6	AreaRAE Pro / Plus	€ 11.00 D1
490-3040-000	Screw Driver Slotted	AreaRAE Pro / Plus	€ 11.00 D1
G02-0304-000	PID 10.6eV sensor maintenance kit (includes sensor cap, electrode panel, and cap removal tool) (Used with ToxiRAE Pro family, MultiRAE family and AreaRAE Pro and Plus)	AreaRAE Pro / Plus, ToxiRAE Pro and MultiRAE Family	€ 28.00 D1
G02-0304-100	9.8 eV PID sensor maintenance kit (incl. sensor cap, cap removal tool, electrode panel)	AreaRAE Pro / Plus	€ 28.00 D1
G02-2025-000	Opening Tool, 4R+ PID sensor	AreaRAE Pro / Plus	€ 28.00 D1
081-0020-000	Tool KIT,7R+ PID sensor (contains opening tool 7R+ and PID lamp removal tool)	AreaRAE Pro / Plus	€ 28.00 D1
081-0017-000	PID sensor lamp cleaning kit (Note: The recommended cleaning fluid Isopropanol is not included)	AreaRAE Pro / Plus	€ 44.00 D2
T03-0001-000	SensorRAE 4R+ Sensor Conditioning Station (Accommodates Six 4R+ Electrochemical Sensors)	AreaRAE Pro / Plus	€ 455.00 D1
C04-0070-000	Kit RAEMet, Sensor & Holder (Improved mechanical design)	AreaRAE Pro / Plus	€ 1,357.00 D1
C04-0072-000	RAEMet Sensor Alone	AreaRAE Pro / Plus	€ 1,085.00 D1
C04-0073-000	RAEMet Holder (Improved mechanical design)	AreaRAE Pro / Plus	€ 272.00 D1
W01-3002-000	Pump replacement kit	AreaRAE Pro / Plus	€ 345.00 D1
W01-3016-000	O-ring for gas plate (multiple units)	AreaRAE Pro / Plus	€ 20.00 D1

12. Area Monitoring - AreaRAE Plus and AreaRAE Pro (PGM-65XXX)

Accessories and Replacement Parts - Carrying and Protective Accessories

Part Number	Description	Compatible Instruments	EUR PG
W01-3014-000	Protective rubber boot – yellow (high and low part; includes 4 Hex	AreaRAE Pro / Plus	€ 317.00 D1
W01-3015-000	Protective rubber boot – black (high and low part; includes 4 Hex screws)	AreaRAE Pro / Plus	€ 317.00 D1
701-0008-003	Pelican Case W/foam for AreaRAE Plus and AreaRAE Pro (No instrument is included)	AreaRAE Pro / Plus	€ 728.00 D2
W01-2059-000	Relay Plastic cover	AreaRAE Pro / Plus	€ 20.00 D1
W01-2058-000	USB / Charger plastic cover	AreaRAE Pro / Plus	€ 20.00 D1
W01-2008-004	Grommit (pack 4)	AreaRAE Pro / Plus	€ 56.00 D1
029-2117-000	Surveyor's Grade Tripod	AreaRAE Pro / Plus	€ 565.00 D1
W01-3018-000	Tripod base plate kit	AreaRAE Pro / Plus	€ 73.00 D1
W01-3017-000	Handle kit	AreaRAE Pro / Plus	€ 137.00 D1

13. MeshGuard Stainless Steel

13.1 MeshGuard Stainless Steel Detectors

MeshGuard Stainless Steel

MeshGuard Stainless Steel is a rugged, battery-powered toxic gas detector integrated with a Mesh radio modem. Designed for use in harsh and hazardous environments, MeshGuard systems are ideal for temporary area monitoring projects
lasting from 1 week to 6 months.

Note for existing MeshGuard users:
New radios have been implemented into the 2010 MeshGuard product line. If you want to add additional radio-enabled
equipment to an existing MeshGuard network that was purchased prior to October 13, 2010, please contact Honeywell Analytics.

MeshGuard Detectors include:
• MeshGuard Detector
• Maintenance Tool
• Calibartion Gas Adapter
• Calibration Certfificate

Part Number	Description	EUR	PG
D01-S001-111	MeshGuard Stainless Steel Detector w/o Battery, Hydrogen Sulfide H_2S Range: 0 to 100 ppm, 0.1 ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S002-111	MeshGuard Stainless Steel Detector w/o Battery, Hydrogen Sulfide H_2S Range: 0 to 1000 ppm, 1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00G-111	MeshGuard Stainless Steel Detector w/o Battery, Flammables LEL* Range: 1 to 100% LEL, 1% Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00J-111	MeshGuard Stainless Steel Detector w/o Battery, Flammables LEL IR* Range: 1 to 100% LEL, 1% Resolutiob Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 2,320.00	UB
D01-S003-111	MeshGuard Stainless Steel Detector w/o Battery, Carbon Monoxide CO Range: 0 to 2000 ppm, 1 ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00P-111	MeshGuard Stainless Steel Detector w/o Battery, Carbon Dioxide CO_2 IR* Range: 0 to 5% vol., 0.01% Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 2,020.00	UB
D01-S00Q-111	MeshGuard Stainless Steel Detector w/o Battery, Carbon Dioxide CO_2 IR* Range: 0 to 100% vol., 0.1% Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 2,020.00	UB
D01-S00D-111	MeshGuard Stainless Steel Detector w/o Battery, O_2 Oxygen Range: 0 to 25% vol., 0.1% Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00A-111	MeshGuard Stainless Steel Detector w/o Battery, Ammonia NH_3 Range: 0 to 100 ppm, 1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S008-111	MeshGuard Stainless Steel Detector w/o Battery, Chlorine Cl_2 Range: 0 to 10 ppm, 0.1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S005-111	MeshGuard Stainless Steel Detector w/o Battery, Sulfur Dioxide SO_2 Range: 0 to 20 ppm, 0.1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB

13. MeshGuard Stainless Steel

Part Number	Description	EUR	PG
D01-S006-111	MeshGuard Stainless Steel Detector w/o Battery, Sulfur Dioxide SO_2 Range: 0 to 100 ppm, 1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S009-111	MeshGuard Stainless Steel Detector w/o Battery, Hydrogen Cyanide HCN Range: 0 to 50 ppm, 0.5ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 2,020.00	UB
D01-S00H-111	MeshGuard Stainless Steel Detector w/o Battery, Nitrogen Oxide NO Range: 0 to 250 ppm, 0.5ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00B-111	MeshGuard Stainless Steel Detector w/o Battery, Phosphine PH_3 Range: 0 to 20 ppm, 0.1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 2,020.00	UB
D01-S00C-111	MeshGuard Stainless Steel Detector w/o Battery, Hydrogen chloride HCl Range: 0 to 15 ppm, 1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 2,020.00	UB
D01-S00K-111	MeshGuard Stainless Steel Detector w/o Battery, Ethylene oxide ETO-A Range: 0 to 100 ppm, 1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00M-111	MeshGuard Stainless Steel Detector w/o Battery, Ethylene oxide ETO-B Range: 0 to 10 ppm, 0.1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00N-111	MeshGuard Stainless Steel Detector w/o Battery, Ethylene oxide ETO-C Range: 0 to 500 ppm, 10ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S007-111	MeshGuard Stainless Steel Detector w/o Battery, Nitrogen Dioxide NO_2 Range: 0 to 20 ppm, 0.1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 1,690.00	UB
D01-S00E-111	MeshGuard Stainless Steel Detector w/o Battery, Hydrogen fluoride HF Range: 0 to 10 ppm, 0.1ppm Resolution Disposable batteries needs to be ordered separately. See also **note below. Minimum 1 disposable battery is recommended to be ordered seperately.	€ 2,570.00	UB

MeshGuard Stainless Steel units do not include mounting hardware (see accessories)

*Note: MeshGuard LEL units require a PowerPak external battery for operation (see accessories)

**Note: All Kits will not include disposable batteries. The batteries need to be ordered separately and will be shipped separately as dangerous goods.
*Please use following part numbers to order the batteries as required:P/N: **500-0111-000-01** or **500-0111-000-05** (pack of 5): Battery, Cell, Li/SO Cl2, D-Size, 3.*

Part Number	Description	EUR	PG
500-0111-000-01	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V, each)	€ 41.00	D2
500-0111-000-05	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V) pack of 5	€ 152.00	D2

Warning: Only Change battery in a non-hazardous (safe) location and use the battery RAE Systems provided.
After changing the battery, wait at least 60 seconds before turning the device on

Internal Battery Replacement
1. Use the 3-pin end of the tool to unscrew and open the battery cover by turning it counterclockwise.
2. Remove the battery.
3. Insert the new battery with its positive ("+") pole towards inside of the unit.
4. Replace the battery cover by turning it clockwise with the 3-pin end of the tool

3-Pin End

Hexagonal end

13.2 MeshGuard Stainless Steel Compliance Kit

MeshGuard Stainless Steel compliance kit can fit 8 MeshGuard detectors
and one Touchpoint Plus Wireless controller

Each MeshGuard Compliance Kit includes:
- Sensor Filter pack for MeshGuard,Pack of 10 (019-2034-010)
- Two Calibration Caps (019-3020-000)
- O-RING,30.2X23.6X1.8,O-RING,NBR(BUNA),Black,Pack of 10 (430-0377-002-10)
- O-RING,21.6X18X1.8,O-RING,NBR(BUNA), Black, pack of 10 (430-0377-004-10)
- O-RING,35.1X31.5X1.8,O-RING,NBR(BUNA), Black, Pack of 10 (430-0377-003-10)
- Three MeshGuard Battery and Detector removal tool (081-0014-000)
- Quick Start Guide (D01-4013-000)
- Recource CD (D01-4005-001)
- Antenna, Extension, 2.4GHz, SMA Connector (300-3002-000)
- Hard Case #1640
- Pre-cut Foam
- Soft Leather Case 360 X 220 X 80 mm

Part Number	Description	EUR	PG
D01-0305-000	MeshGuard Stainless Steel Kit with Accessories (No MeshGuard or TPPLW included)	€ 880.00	UC
019-2034-010	Sensor Filter, Pack of 10	€ 25.00	UC
019-3020-000	Calibration Cap	€ 25.00	UC
430-0377-002-10	O-ring for sensor cover, Pack of 10	€ 25.00	UC
430-0377-004-10	O-ring for filter cover, Pack of 10	€ 25.00	UC
430-0377-003-10	O-ring for battery cover, Pack of 10	€ 25.00	UC
081-0014-000	Maintenance tool for MeshGuard battery and sensor replacement	€ 25.00	UC
D01-4013-000	Quick Start Guide	€ 8.00	UC
D01-4005-001	Resource CD	€ 8.00	UC
300-3002-000	Antenna, Extension, 2.4GHz, SMA Connector (2meter)	€ 48.00	UC

13.3 MeshGuard Accessories and Spares

F03-0002-000
Stainless Steel PowerPak (4 cell) - no charger

F06-0002-000
SolarPak Kit with LEL detector and PowerPak - US (Includes LEL detector in Stainless Steel housing, PowerPak, Mounting plate, SolarPak, Pole/Wall mount, AC charger, all in a single Pelican case)
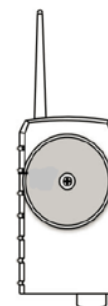
300-3002-000
Antenna extension for MeshGuard

019-2055-000
MeshGuard detector stainless steel mounting bracket

D01-3002-000
Magnet Mount for MeshGuard

13. MeshGuard Stainless Steel

13.3 MeshGuard Accessories and Spares

Part Number	Description	EUR	PG
F03-0002-000	Stainless Steel PowerPak (4 cell) - no charger	€ 1,566.00	UC
F04-H110-110	MeshRouter Stainless Steel, 2.4 GHz Without Batteries (Disposable batteries needs to be ordered separatel)	€ 1,150.00	UC
F04-J110-110	EchoView Stainless Steel, 2.4 GHz Without Batteries (Disposable batteries needs to be ordered separatel)	€ 1,150.00	UC
F04-A1H0-100	EchoView Host, FMC-400, 2.4GHZ, CU, Without Battery, Standard Kit	€ 1,152.00	C3
F06-0002-000	SolarPak Kit with LEL detector and PowerPak - US (Includes LEL detector in Stainless Steel housing, PowerPak, Mounting plate, SolarPak, Pole/Wall mount, AC charger, all in a single Pelican case)	€ 4,494.00	UB
F06-0002-001	SolarPak Kit with LEL detector and PowerPak - EU (Includes LEL detector in stainless steel housing, PowerPak, Mounting plate, SolarPak, Pole/Wall mount, AC charger, all in a single Pelican case)	€ 4,494.00	UB
F06-0002-002	SolarPak Kit with LEL detector and PowerPak - UK (Includes LEL detector in stainless steel housing, PowerPak, Mounting plate, SolarPak, Pole/Wall mount, AC charger, all in a single Pelican case)	€ 4,494.00	UB
F06-0001-000	SolarPak (Solar panel charger for PowerPak with pole/wall mount assembly)	€ 1,033.00	UC
F06-0002-100	SolarPak Kit - (SolarPak, PowerPak Mounting Plate, Pelican Case)	€ 1,504.00	UC
F06-3006-000	SolarPak pole/wall mount assembly (no solar panel)	€ 209.00	UC
F06-3007-000	SolarPak pole/wall mount assembly replacement screws/washers/nuts. Pack of 10.	€ 33.00	UC
F03-0005-000	Kit, 2 stainless steel PowerPaks (4 cell) + chargers in pelican case (US cables)	€ 4,104.00	UB
F03-0005-001	Kit, 2 stainless steel PowerPaks (4 cell) + chargers in pelican case (EU cables)	€ 4,104.00	UB
F03-0005-002	Kit, 2 stainless steel PowerPaks (4 cell) + chargers in pelican case (UK cables)	€ 4,104.00	UB
D01-3003-000	Connection cable for RAE PowerPak to MeshGuard 1m (C1D1 / Zone 0)	€ 80.00	UC
D01-3004-000	Connection cable for RAE PowerPak to MeshGuard 5m (C1D1 / Zone 0)	€ 104.00	UC
F06-3002-000	Cable Assembly for SolarPak	€ 125.00	UC
701-0010-200	Transportation box for 2 PowerPaks (PowerPak Kit)	€ 505.00	UC
701-0010-300	Transportation box for SolarPak (Pelican case with custom foam that holds SolarPak, PowerPak, detector, mounting plate, AC charger)	€ 472.00	UC
701-0021-000	Transportation box for 8 MeshGuard detectors (Extenstion Kit)	€ 384.00	UC
701-0027-000	Transportation box for controller and 8 MeshGuard detectors (Compliance Kit)	€ 472.00	UC
F03-3016-000	Steel mounting board Kit for PowerPak	€ 96.00	UC
D01-0300-001	Kit, MeshGuard Detector stainless steel mounting bracket, with splash guard, with pole mounting	€ 153.00	UC
D01-0300-002	Kit, MeshGuard Detector stainless steel mounting bracket, with splash guard, with magnet mounting	€ 153.00	UC
019-2055-000	MeshGuard detector stainless steel mounting bracket	€ 129.00	UC
033-2004-000	Splash Guard for stainless steel mounting bracket	€ 25.00	UC
D01-3002-000	Magnet Mount, Stainless Steel, MeshGuard	€ 33.00	UC
019-2052-000	Pole Mount, Aluminium, MeshGuard	€ 33.00	UC
032-0102-003	H_2S Sensor for MeshGuard, 0 to 100 ppm	€ 136.00	UC
032-0102-100	H_2S Sensor for MeshGuard, 0 to 1000 ppm	€ 136.00	D2
032-0100-000	CO Sensor for MeshGuard	€ 136.00	UC
D01-3012-000	CO_2 IR Sensor for MeshGuard, 0 to 5% Vol.	€ 762.00	UB
D01-3013-000	CO_2 IR Sensor for MeshGuard, 0 to 100% Vol.	€ 762.00	UB
014-0212-000	LEL Sensor for MeshGuard	€ 170.00	D2
D01-3011-000	LEL IR Sensor for MeshGuard	€ 805.00	UB
045-1113-000	SO_2 Sensor for MeshGuard	€ 290.00	D2
045-1116-000	Cl_2 Sensor for MeshGuard	€ 290.00	D2
045-1118-000	NH_3 Sensor for MeshGuard	€ 385.00	D2
046-1161-000	O_2 Sensor for MeshGuard	€ 170.00	D2
032-0126-000	HCl Sensor for MeshGuard	€ 621.00	D2
045-1124-000	HF Sensor for MeshGuard	€ 790.00	D2
032-0110-100	ETO-A Sensor for MeshGuard	€ 290.00	D2
032-0110-200	ETO-B Sensor for MeshGuard	€ 290.00	D2
032-0110-300	ETO-C Sensor for MeshGuard	€ 290.00	D2
045-1114-000	NO Sensor for MeshGuard	€ 335.00	D2
045-1115-000	NO_2 Sensor for MeshGuard	€ 335.00	D2
045-1117-000	HCN Sensor for MeshGuard	€ 335.00	D2
045-1119-000	PH_3 Sensor for MeshGuard	€ 349.00	D2

13. MeshGuard Stainless Steel

Part Number	Description	EUR	PG
081-0014-000	Maintenance tool for MeshGuard battery and sensor replacement	€ 25.00	UC
019-3020-000	Calibration Cap	€ 25.00	UC
019-2034-010	Sensor Filter, Pack of 10	€ 25.00	UC
019-2046-010	Carbon Filter, CO Sensor, MeshGuard, pack of 10	€ 25.00	D2
500-0111-000-01	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V, each)	€ 41.00	D2
500-0111-000-05	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V) pack of 5	€ 152.00	D2
550-7024-000	Antenna,rubberized, 5dBi,SMA Connector(standard on detector and controller)	€ 33.00	D2
D01-3005-000	Antenna, Fiberglass, Outdoor, 8 dbi, pole mount, 10m/30ft extension cable	€ 176.00	UC
D01-3005-001	8Dbi External Antenna for FMC 2000 including 10 meter RF cable and lighting protection/arrester, for N type connector (MALE)	€ 203.00	UC
019-2015-000	Sensor cover, MeshGuard	€ 33.00	UC
430-0377-002-10	O-ring for sensor cover, Pack of 10	€ 25.00	UC
019-2014-000	Battery cover, MeshGuard	€ 25.00	UC
430-0377-003-10	O-ring for battery cover, Pack of 10	€ 25.00	UC
019-2025-000	Filter Cover, Stainless Steel, MeshGuard	€ 40.00	UC
430-0377-004-10	O-ring for filter cover, Pack of 10	€ 25.00	UC
490-3027-002	Replacement keys for FMC-2000 controller. Pack of 2.	€ 29.00	UC
430-4031-000-10	Replacement screws and washers for detector steel mounting bracket. Pack of 10.	€ 33.00	UC
F03-3014-000	Charger kit, RAE PowerPAK, with EU Power Cable	€ 113.00	UC
F03-3014-001	Charger kit, RAE PowerPAK, with US Power cable	€ 113.00	UC
F03-3014-002	Charger kit, RAE PowerPAK, with UK Power cable	€ 113.00	UC
F01-3010-001	Replacement wall mounting bracket for FMC-2000	€ 49.00	UC
F03-3021-000	Replacement screws for PowerPak steel mounting board. Pack of 4.	€ 25.00	UC
500-0111-000-01	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V, each)	€ 41.00	D2
500-0111-000-05	Replacement Battery for EchoView, Mesh Router, Mbeacon or Meshguard (Li / SO Cl_2, D-SIZE, 3.6V) pack of 5	€ 152.00	D2
D01-2016-000	Rain Guard Adapter for MeshGuard	€ 24.00	UC
550-7043-000	Antenna Flexible Whip MONOPLE, 698-960 MHz / 1710-2690 MHz, SMA(MALE) Connector	€ 37.00	UC
550-7027-001	8dB Antenna for FMC-2000	€ 74.00	UC
W02-2005-000	RF Cable, Right Angle MMCX to N-FEMALE Bulkhead,150mm	€ 24.00	UC
550-7044-000	Antenna 2400-2500 MHz, 0.3M, N-MALE	€ 47.00	UC

13. MeshGuard Stainless Steel

13.4 RAEPoint Fixed Head Wireless Infrastructure

RAEPoint Fixed Head Wireless Relay is an explosion proof wireless device that both extends the range and enables remote relay functionality across a wireless mesh network. RAEPoint communicates with wireless detectors and controllers and can use any of its five internal relays to trigger audible and visible alarms to provide additional alert notification in hazardous locations. Alarms can now be displayed both at gas monitors and the host controller as well as remote locations via wireless relay switches. RAEPoint can also be wirelessly configured via the system controller and can also serve as a wireless host and communicate directly with detectors. User proveds 12-28VDC input.

Operation Mode

1: Remote/Router
2: Host
4: RAEGuard 2
PID

RAEPoint → F08-00XX-X00

Certification

0: ATEX/IECEx
1: CSA
H: CU Russia

Wireless Module

0: 2.4GHz
1: 868MHz
2: 915MHz
C: 869MHz CU (Russia)
D: 865.6MHz & 866.4MHz (India)
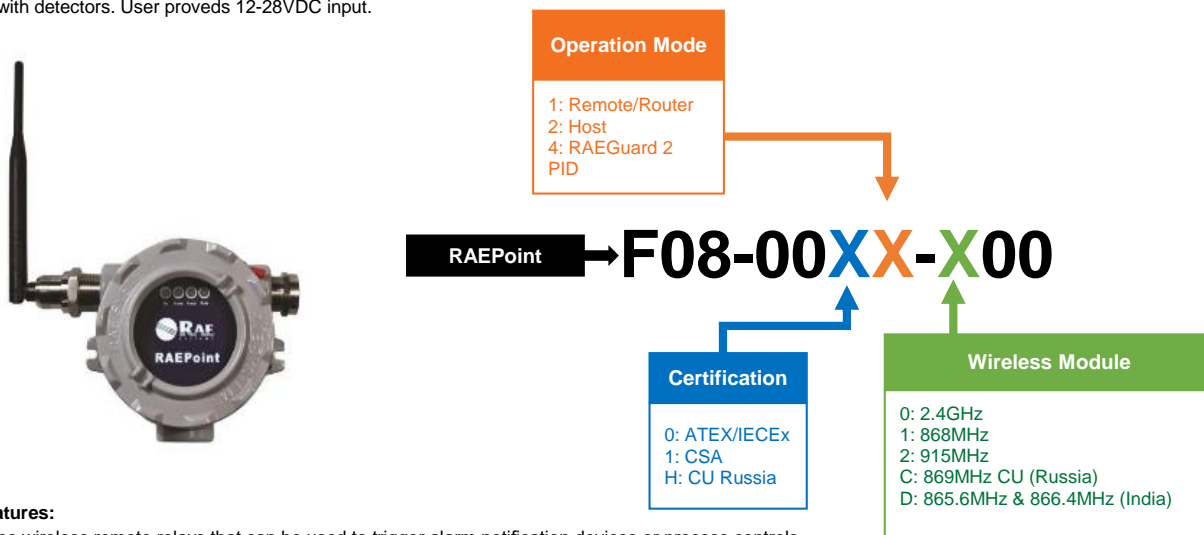
Key Features:

• Provides wireless remote relays that can be used to trigger alarm notification devices or process controls
• 5 internal SPDT relays, rated at 2A@24VDC
• Wireles transmission distance of 1000 ft (300 m) point-to-point. Range can be extended by using wireless routers.
• Continuously powered by standard 12-28VDC input
• Class 1, Division 1 (ATEX Zone 1) hazardous area certification
• (cCSAus certified)
• Available as standalone unit, or as a turn-key wireless alarm bar solution, mounted and pre-wired with two 5J xenon ligh and a 110db horn

Part Number	Description	EUR	PG
F08-0001-000	RAEPoint, ATEX/IECEX, Remote, 2.4GHz, Standard Kit - Europe	€ 1,259.00	UB
F08-0011-000	RAEPoint, CSA, Remote, 2.4GHz, Standard Kit - USA	€ 1,259.00	UB
F08-0005-000	RAEPoint ,RRA2000, ATEX/IECEX For Flame Detector Remote, RM2400A, 2.4GHz	€ 1,259.00	UB
F08-0015-000	RAEPoint ,RRA2000, CSA For Flame Detector Remote, RM2400A, 2.4GHz	€ 1,259.00	UB
F08-0004-000	RAEPoint, RRA2000, ATEX/IECEX For RAEGuard 2 PID, REMOTE, RM2400A, 2.4GHz	€ 1,259.00	UB
F08-0014-000	RAEPoint ,RRA2000, CSA For RAEGuard 2 PID, Remote, RM2400A, 2.4GHz	€ 1,259.00	UB
F08-0002-000	RAEPoint, ATEX/IECEX, Host, 2.4GHz, Standard Kit - Europe	€ 1,259.00	UB
F08-00H1-000	RAEPoint, CU, Remote/Router, 2.4GHz, Standard Kit - Russia	€ 1,259.00	UB
F08-00H2-000	RAEPoint, CU, Host, 2.4GHz, Standard Kit - Russia	€ 1,259.00	UB
F08-0012-000	RAEPoint, CSA, Host, 2.4GHz, Standard Kit - USA	€ 1,259.00	UB
F08-00H4-000	RAEPoint, CU for RAEGuard 2 PID, 2.4GHz, Standard Kit - Russia	€ 1,259.00	UB
F08-00H5-000	RAEPoint, CU for Flame Detector, 2.4GHz, Standard Kit - Russia	€ 1,259.00	UB
550-7024-000	Antenna,rubberized, 5dBi,SMA Connector(standard on detector and controller)	€ 33.00	D2
D01-3005-000	Antenna, Fiberglass, Outdoor, 8 dbi, pole mount, 10m/30ft extension cable	€ 176.00	UC
F08-2005-000	Replacement steel antenna base cover (for standard antenna)	€ 33.00	UC

13. MeshGuard Stainless Steel

13.5 Wireless Alarm Bars

The wireless alarm bars Wirelessly triggers alarm notification in hazardous environments

All Wireless Alarm Bar units include:
• RAEPoint Fixed Wireless Relay (with five internal relays)
• Red xenon light
• Yellow xenon light
• 112dBA horn
• Mounting plate
• Antenna removal tool
• Housing cover removal tool
• User's guide

WA100 Alarm

Part Number	Description	EUR	PG
F08-E001-010	DC Wireless Alarm bar, ATEX/IECEX, 2.4GHz	€ 4,140.00	UB
F08-E011-010	DC Wireless Alarm bar, CSA C1D2, 2.4GHz	€ 4,140.00	UB
F08-E002-0C0	WA100 DC Wireless Alarm bar, safe Area truck mount, 2.4 GHz ATEX RAEPoint	€ 1,815.00	UB
F08-E012-0C0	WA100 DC Wireless Alarm bar, safe Area truck mount, 2.4 GHz CSA RAEPoint	€ 1,815.00	UB
F08-E300-000	FTB 100 battery solar panel version (Including the solar panel, battery pack C1D2, enclosure and connectors)	€ 7,227.00	UB
F05-E030-024	FA-324 Alarm Bar with 4 Visible and One Audio Alarm 24 Volt DC for use with TPPLW.	€ 1,770.00	UB

14. Honeywell Software

14.1 ProRAE Guardian Software (On-Premise)

### Mobile Command Center For Rapid Threat Response

ProRAE Guardian represents an advanced generation of real-time wireless gas detection software, and serves as a mobile command center for all your threat-detection needs. It allows incident commanders and safety managers to receive instant updates of real-time data anywhere and anytime they need it. ProRAE Guardian software connects, integrates, and relays data from RAE Systems' and select partners' wireless products to remote monitors located anywhere you choose.

Make critical decisions with:

· Real-time display of device status, sensor readings, and alarms
· Intuitive user interface with simultaneous on-screen instrument readings
· Integrated Google Maps show precise instrument locations with alarm status
· Supports all RAE Systems' wireless-enabled products
· Display up to 500 instruments simultaneously
· Remote alarming via email and text messaging

Download ProRAE Guardian Software from the following link:
https://www.raesystems.com/customer-care/software-updates/prorae-guardian
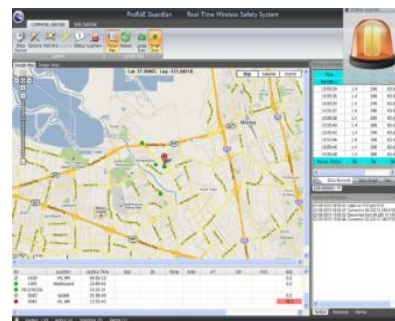

14.2 ProRAE Guardian CloudServer

ProRAE Guardian CloudServer service from RAE Systems Inc. provides ProRAE Guardian users the ability to aggregate and share instrument data between installations and remote sites simply and easily with no extra hardware or maintenance costs. Your PRG CloudServer is available to all your installations day and night, all the time, world-wide*.

Benefits

• Your own private PRG CloudServer on the public Internet
• Your own static IP address
• Optional security Access Control for controlling unauthorized access
• No hardware to buy and maintain
• Many terms of service to choose from

Requirements

• One or more PRG installations that you want to connect to your PRG CloudServer
• One or more properly licensed PRG-compatible instruments
• Active Internet connection between all PRG installations and your PRG CloudServer
• Ability to open ports for PRG access if necessary
• No hardware to buy and maintain
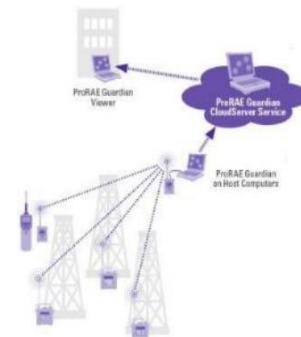
*Please refer to your PRG CloudServer Service Agreement for complete details of the service terms. Please reference the CASE #, Customer ID and SO number on the front of your Certificate of Service when requesting service. Your contract is non-transferable. All contracts are paid in advance for the full term of the agreement. Contracts become effective 15 days after shipment of this notice, or upon first use of the service, whichever comes first

Part Number	Description	EUR PG
S01-0A00-100	ProRAE Guardian CloudServer Service, (1 year term)	€ 6,031.00 C4
S01-0A00-200	ProRAE Guardian CloudServer Service, (2 year term)	€ 7,502.00 C4
S01-0A00-300	ProRAE Guardian CloudServer Service, (3 year term)	€ 9,267.00 C4
S01-0A00-400	ProRAE Guardian CloudServer Service, (4 year term)	€ 11,032.00 C4
S01-0A00-500	ProRAE Guardian CloudServer Service, (5 year term)	€ 12,355.00 C4

14. Honeywell Software

14.3 ProRAE Guardian™ Software License

ProRAE Guardian supports concurrent instrument license model, which limits the maximum number of instruments in each Tier that can be monitored at the same time when connected through RAELink family Host modem or RAEMesh Reader. The Tier license is determined as per the table below.

Tier 1	Tier 2	Tier 3
ToxiRAE Pro	MeshGuard Family	AreaRAE Plus
ToxiRAE Pro CO_2	MultiRAE Lite	AreaRAE Pro
ToxiRAE Pro LEL	MultiRAE	MultiRAE Pro
ToxiRAE Pro PID	MiniRAE 3000 +	ppbRAE 3000+
QRAE 3	BW RigRat	UltraRAE 3000+
MicroRAE	BW Ultra	RAEGuard 2 PID
BW Solo		WEATHERPAK
BW MaxXT II		BioHarness
BW MicroClip XL		All 3rd-Party Instruments
BW MicroClip X3		
MODBUS Instruments		

• Wireless Infrastructure products do not require a license (e.g. RAELink3).
• Higher tier licenses can view lower tier license instruments (e.g. Tier 3 license can view any of the Tier 1 or Tier 2 instruments).
• No license is required for ProRAE Guardian Viewer or for monitoring instruments connected with remote ProRAE Guardian.
• Each ProRAE Guardian Host connecting with instruments through RAELink family Host modem requires separate licenses.
• ProRAE Guardian requires activation which locks the instrument licenses with the PC or laptop.
• Deactivation of ProRAE Guardian unlocks the licenses. Unlocked licenses can be installed on another machine.

ProRAE Guardian Guaranteed Cost of Ownership ("GCO") entitles customer to receive all ProRAE Guardian software releases during the GCO Term. It offers great savings over purchasing software upgrades, which are 50% of the Total Purchase Price (TPP) paid by customers for the ProRAE Guardian licenses.

• GCO is only for the ProRAE Guardian instrument monitoring licenses. It does not apply to the instruments.
• Separate GCO must be purchased for the instruments, if needed.
• GCO must be purchased within one year of the purchase of ProRAE Guardian Instrument Monitoring Licenses.
• GCO must be renewed before its Term expires in order to continue receiving the software upgrades.
• Active GCO Term is required to receive the software upgrades.
• GCO is associated with a Product Key and cannot be transferred.
• Prorated GCO must be purchased, when additional licenses are ordered for an existing Product Key (PRG Host) with active GCO Term.

Part Number	Description	EUR	PG
S01-3000-000	**ProRAE Guardian License - Tier 3 Concurrent Instruments**		**C4**
	Quantity 1-9	€ 883.00	
	Quantity 10-16	€ 662.00	
	Quantity 17-28	€ 591.00	
	Quantity 29-48	€ 530.00	
	Quantity 49+	€ 442.00	
S01-2000-000	**ProRAE Guardian License - Tier 2 Concurrent Instruments**		**C4**
	Quantity 1-24	€ 442.00	
	Quantity 25-49	€ 331.00	
	Quantity 50-99	€ 296.00	
	Quantity 100+	€ 220.00	
S01-1000-000	**ProRAE Guardian License - Tier 1 Concurrent Instruments**		**C4**
	Quantity 1-49	€ 220.00	
	Quantity 50-99	€ 166.00	
	Quantity 100-149	€ 149.00	
	Quantity 150+	€ 111.00	

Part Number	Description	EUR	PG
S01-0000-003	ProRAE Guardian 3 Years GCO (Guaranteed Cost of Ownership)	26% of TPP	C4
S01-0000-004	ProRAE Guardian 4 Years GCO (Guaranteed Cost of Ownership)	33% of TPP	C4
S01-0000-005	ProRAE Guardian 5 Years GCO (Guaranteed Cost of Ownership)	39% of TPP	C4
S01-0000-006	ProRAE Guardian 6 Years GCO (Guaranteed Cost of Ownership)	44% of TPP	C4
S01-0000-007	ProRAE Guardian 7 Years GCO (Guaranteed Cost of Ownership)	49% of TPP	C4
S01-0000-008	ProRAE Guardian 8 Years GCO (Guaranteed Cost of Ownership)	53% of TPP	C4
S01-0000-009	ProRAE Guardian 9 Years GCO (Guaranteed Cost of Ownership)	56% of TPP	C4
S01-0000-010	ProRAE Guardian 10 Years GCO (Guaranteed Cost of Ownership)	58% of TPP	C4

TPP = Total Purchase Price

14. Honeywell Software

14.4 ProRAE Guardian™ Cloud Real Time Monitoring Subcription Base Model

The Subscription Model provides the end customers the ability to get license keys that are valid for a fixed duration of time or to allow rental houses to get license keys to lease out the software to their end customers for a fixed duration of time. Subscription based licenses cannot be combined with perpetual licenses.

Part Number	Description	EUR PG
S01-1000-210	ProRAE Guardian Real-time Monitoring Tier 1 Yearly Subscription per Instrument	€ 146.00 C4

14.5 ProRAE Guardian™ SDK

ProRAE Guardian helps incident commanders and safety managers improve safety through real-time remote monitoring of wireless gas and radiation-detector networks.
ProRAE Guardian™ SDK (Software Development Kit) provides third-party product vendors and systems integrators the ability to integrate real-time data from ProRAE Guardian with external networks such as SCADA (Supervisory Control And Data Acquisition), public warning, and predictive analytics systems.

Benefits
• Easily build custom monitoring and control solutions.
• Broaden capabilities of existing applications and systems by including real-time gas and radiation data.
• Rapid and cost-effective integration.
• Open-platform for future expansion.
• Supports all RAE Systems wirelessly enabled products.

SDK License
• Separately licensed component.
• Perpetual license i.e. no term associated with the license.
• ProRAE Guardian Instrument Monitoring License is a prerequisite.

Ordering
• Requires Product Key for existing ProRAE Guardian Instrument Monitoring License.
• SDK license required for every instrument included in the Product Key.

Pricing
• SDK license price is 50% of the list price for the ProRAE Guardian Instrument Monitoring License.
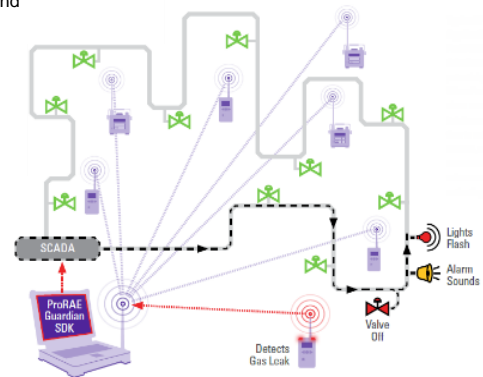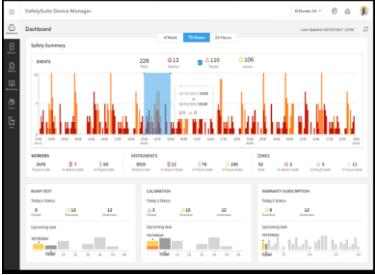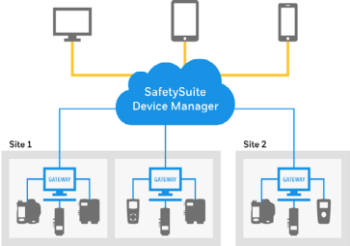
Part Number	Description	EUR	PG
S01-0001-000	ProRAE Guardian SDK License	50% of LP	C4
	LP - List Price for PRG License(s) represented by the Product Key		

14. Honeywell Software

14.6 Honeywell Safety Suite Device Manager

Honeywell Safety Suite Device Manager enables you to manage your fleet of Honeywell portable gas detectors and docks with ease. It reduces the burden of administration and simplifies compliance so you can concentrate on keeping people safe.

- Simple and Intuitive User Interface
- Advanced Reporting
- Centralized Data for Multi-Site Management
- Streamlined Device Management
- Secure and Flexible User Management

Part Number	Description	EUR	PG
SS-200-01-0000001	**Honeywell Safety Suite Device Manager (1 device, 1-year agreement)**	**€ 32.00**	**C4**
SS-200-03-0000001	**Honeywell Safety Suite Device Manager (1 device, 3-year agreement)**	**€ 86.40**	**C4**
	Quantity Up to 500............................. 0%		
	Quantity Up to 1,000.......................... 5%		
	Quantity Up to 2,500.......................... 10%		
	Quantity Up to 5,000.......................... 15%		
	Quantity Up to 10,000......................... 20%		
	Quantity Up to 25,000......................... 25%		
	Quantity Up to 50,000......................... 30%		
	Quantity Up to 100,000....................... 35%		
	Quantity 100,000+.............................. 40%		
SS-000-00-0000001	Professional Services Daily Rate........	€ 1,460.00	0
SS-000-00-0000002	Professional Services T&E Estimate	€ 684.00	0

- *3 Year discount 10%*
- *Minimum Order Value: € 885.00*
- *Volume Discounts calculated per sales order*
- *One sales order per end customer*
- *Addition licenses can be added at later time*
- *All licenses baselined to original purchase date at renewal*
- *Professional Services extra*

15. Multi-Gas Parts and Accessories

15.1 Accessories

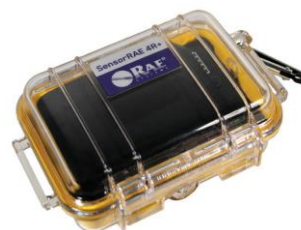| Part Number	Description	EUR	PG
029-3003-000	Computer interface cable 9 pin male to female	€ 52.00	D1
081-0017-000	PID sensor lamp cleaning kit (Note: The recommended cleaning fluid Isopropanol is not included)	€ 44.00	D2
050-0010-000	10.6 eV Interchangeable 1/4″ PID lamp	€ 225.00	D2
050-0011-001	11.7 eV Interchangeable 1/4″ PID lamp (in ampoule)	€ 402.00	D2
008-3007-001	PID sensor assembly for ¼" PID lamps	€ 119.00	D2
008-1111-000	Hydrogen Sulfide sensor (interchangeable)	€ 228.00	D2
008-1112-000	Carbon Monoxide sensor (interchangeable)	€ 228.00	D2
008-1113-000	Sulfur Dioxide sensor (interchangeable)	€ 334.00	D2
008-1114-000	Nitric Oxide sensor (interchangeable)	€ 319.00	D2
008-1115-000	Nitrogen Dioxide sensor (interchangeable)	€ 319.00	D2
008-1116-001	Chlorine sensor (interchangeable)	€ 334.00	D2
008-1117-000	Hydrogen Cyanide sensor (interchangeable)	€ 486.00	D2
008-1125-000	Ammonia Unbiased Sensor Module	€ 486.00	D2
008-1119-000	Phosphine sensor (interchangeable)	€ 334.00	D2
008-1120-000	Chlorine dioxide sensor (non-interchangeable)	€ 473.00	D2
051-0011-100	Carbon dioxide sensor (non-interchangeable)	€ 647.00	D2
008-1161-000	Oxygen sensor (2 year)	€ 196.00	D2
022-0300-000	SPE oxygen Sensor 2 year for QRAE II	€ 196.00	D2
008-1171-001	Combustible gas sensor	€ 228.00	D2
008-2009-005	Dummy sensor block	€ 34.00	D2
032-0200-000	Carbon Monoxide sensor	€ 196.00	D2
014-0212-000	LEL Sensor for MeshGuard	€ 170.00	D2
032-0202-000	Hydrogen Sulfide sensor	€ 196.00	D2
046-3012-005	Dummy sensor 4R format (pack of 5)	€ 29.00	D2
046-3013-005	Dummy sensor 3R (e.g. QRAE3, QRAE II LEL, H$_2$S, and CO sensors) (Pack of 5)	€ 30.00	D2
500-0038-000	Rechargeable, non-intrinsically safe, Li-ion battery pack, 4.8 V, 1350 mAh (red)	€ 260.00	D2
500-0029-000	Alkaline battery adapter (4 AA batteries)	€ 21.00	D1
003-3004-000	Automotive charging adapter 12 VDC	€ 39.00	D1
500-0070-100	Universal 110 – 230 V AC-DC adaptor, Euro plug	€ 54.00	D1
008-3015-100	Remote Tygon® sample draw kit for pump-equipped multi-sensor instruments. Kit includes a stiff 10" (26 cm) aluminum sample probe with replaceable particulate and hydrophobic barrier filters, 3 hydrophobic barrier filters, 15′ (5 m) Tygon® tubing with Luer style quick connect fittings. (Not for use with reactive gases or with PID equipped instruments.)	€ 79.00	D1
008-3015-200	Remote Teflon® sample draw kit for pump equipped multi-sensor instruments. Kit includes a stiff 10" (26 cm) aluminum sample probe with replaceable particulate and hydrophobic barrier filters, 3 hydrophobic barrier filters, 10′ (3 m) self-coiling Teflon® tubing with Luer-style quick-connect fittings. (For use with PID equipped instruments.)	€ 116.00	D1
008-3015-001	Collapsible, aluminum Remote Access Probe with insulated handle and Teflon® tubing 6.5′ (2 m). Probe Expands to 35"	€ 101.00	D1
008-3015-000	Collapsible, remote probe with 15′ (5 m) of tubing	€ 122.00	D1
411-0025-037	SE-200 FEP-lined Tygon® Tubing 1/4" OD, 1/8" ID (unit price is per 1 feet)	€ 13.00	D1
411-0008-000	Teflon® tubing 1/16" ID (unit price is per 1 feet)	€ 32.00	D1
411-0018-037-10	Tygon® tubing 1/8" ID (10 feet)	€ 41.00	D1
411-0025-037-05	FEP-lined Tygon® tubing ¼" OD, 1/8" ID (5 feet or 1,5 meter)	€ 41.00	D1
008-3012-150	15′ (5 m) Tygon® tubing w/ male Luer fitting	€ 61.00	D1
008-3012-152	15′ (5 m) Teflon® lined Tygon® tubing ¼" OD, 1/8" ID w/ male Luer fitting	€ 61.00	D1
490-0044-000	Rubber float with sintered metal filter weight	€ 72.00	D1
020-3413-000	Hand pump	€ 72.00	D1
046-3022-010	External 25 mm filters (pack of 10) (without adapter)	€ 32.00	D1
008-3022-100	External 25 mm filters (pack of 100) (without adapter)	€ 214.00	D1
008-3014-005	External 25 mm filter with adapter (pack of 5) (for barbed fittings)	€ 52.00	D1
008-3006-010	Charcoal filter for CO Sensor (pack of 10)	€ 32.00	D1
008-3006-020	Charcoal filter for CO Sensor (pack of 20)	€ 52.00	D1
400-0072-025	Female Luer connector (pack of 25)	€ 41.00	D1
400-0073-020	Male Luer connector (pack of 20)	€ 32.00	D1
008-3024-000	External PID zeroing filter	€ 72.00	D1
020-2419-005	Dust Filter for QRAE3 (pack of 5) for diffusion model	€ 37.00	D2

15. Multi-Gas Parts and Accessories

Part Number	Description	EUR	PG
G01-2003-025	Dust Filter (pack of 25) for pumped model (SN>181-138374)	€ 37.00	D2
G01-2004-025	Dust Filter (pack of 25) for pumped model (SN<181-138374)	€ 37.00	D2
008-3022-010	External Water trap filter 25mm without Adapter (pack of 10) for pumped model	€ 29.00	D1
008-3040-000	Case, hard-sided case with foam (14" x 12.5" x 4.25")	€ 70.00	D1
002-3009-000	Case, hard-sided packing case with foam (18.5" x 13" x 6.5")	€ 169.00	D1
008-3042-001	MultiRAE Plus rubber boot (yellow)	€ 81.00	D1
027-3042-000	QRAE and MultiRAE Plus rubber boot (black)	€ 81.00	D1
703-0000-000	Body Harness	€ 52.00	D1
002-3013-000	Wrist strap	€ 18.00	D2
081-0005-000	Tool Kit	€ 32.00	D1
000-5001-000	ProRAE Suite Software CD for Windows™ 95, 98 & NT, 2000, XP, and ME	€ 40.00	D2
410-0210-000	RS-232 9-pin Male Cable Adapter USB TO Serial	€ 119.00	D1
008-3003-000	Computer Interface Cable	€ 50.00	D1

15.2 Sensor Conditioning

SensorRAE 4R+

The SensorRAE 4R+ is a six-socket electrochemical (EC) sensor conditioning station that not only expands the assortment of 4R+ sensors available to the users of RAE Systems gas detection instruments (such as the ToxiRAE Pro and MultiRAE family) in the field, but also keeps such sensors on bias and ready for installation, calibration, and use without requiring the extra warm-up time. The SensorRAE 4R+ is also a convenient way to protect, carry, and store spare sensors.

Supports the following RAE Systems Products:

- MultiRAE Lite
- MultiRAE
- MultiRAE Pro
- ToxiRAE Pro
- AreaRAE Pro
- AreaRAE Plus

Part Number	Description	EUR	PG
T03-0001-000	SensorRAE 4R+ Sensor Conditioning Station (Accommodates Six 4R+ Electrochemical Sensors)	€ 455.00	D1

15. Multi-Gas Parts and Accessories

029-3003-000
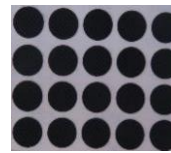Computer interface cable 9 pin male to female

020-2419-005
Dust Filter for QRAE3 (pack of 5) for diffusion model

008-3007-001
PID sensor assembly for ¼" PID lamps

003-3004-000
Automotive charging adapter 12 VDC

G01-2003-025
Dust Filter (pack of 25) for pumped model (SN>181-138374)

500-0070-100
Universal 110 – 230 V AC-DC adaptor, Euro plug

008-3015-100
Remote Tygon® sample draw kit for pump-equipped multi-sensor instruments. Kit includes a stiff 10" (26 cm) aluminum sample probe with replaceable particulate and hydrophobic barrier filters, 3 hydrophobic barrier filters, 15' (5 m) Tygon® tubing with Luer style quick connect fittings. (Not for use with reactive gases or with PID equipped instruments.)

008-3015-200
Remote Teflon® sample draw kit for pump equipped multi-sensor instruments. Kit includes a stiff 10" (26 cm) aluminum sample probe with replaceable particulate and hydrophobic barrier filters, 3 hydrophobic barrier filters, 10' (3 m) self-coiling Teflon® tubing with Luer-style quick-connect fittings. (For use with PID equipped instruments)
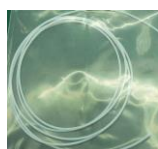
008-3015-001
Collapsible, aluminum Remote Access Probe with insulated handle and Teflon® tubing 6.5' (2 m). Probe Expands to 35"

081-0017-000
PID sensor lamp cleaning kit (Note: The recommended cleaning fluid Isopropanol is not included)

008-3040-000
Case, hard-sided case with foam (14" x 12.5" x 4.25")

411-0008-000
Teflon® tubing 1/16" ID (unit price is per 1 feet)

411-0025-037-05
FEP-lined Tygon® tubing ¼" OD, 1/8" ID (5 feet or 1,5 meter)

002-2044-005
Tygon® to Teflon® Fitting (pack of 5)

G01-2004-025
Dust Filter (pack of 25) for pumped model (SN<181-138374)
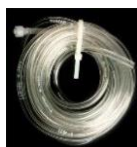
008-3012-150
15' (5 m) Tygon® tubing w/ male Luer fitting

008-3012-150
15' (5 m) Tygon® tubing w/ male Luer fitting

490-0044-000
Rubber float with sintered metal filter weight

081-0005-000
Tool Kit

002-3009-000
Case, hard-sided packing case with foam (18.5" x 13" x 6.5")

008-3014-005
External 25 mm filter with adapter (pack of 5) (for barbed

400-0073-020
Male Luer connector (pack of 20)

008-3006-010
Charcoal filter for CO Sensor (pack of 10)

046-3022-010
External 25 mm filters (pack of 10) (without adapter)

008-3022-100
External 25 mm filters (pack of 100) (without adapter)

400-0072-025
Female Luer connector (pack of 25)

16. Calibration Gas and Equipment

In the following pages you will find our calibration gas offering in 4 different cylinder sizes: 12L, 34L, 58L and 110L. We also offer the following:

Part Number	Description	EUR	PG
4G18X22W25H100-750	750L Quad Gas: 25 ppm Hydrogen Sulphide, 100 ppm Carbon Monoxide, 2.2 % Methane, 18 % Oxygen in Nitrogen	€ 1,691.00	A5

Note: Maximum shelf life is 24 months. Effective shelf life depends on the transportation and storage times and could potentially vary from the given maximum shelf life.

To select the correct gas cylinder part number:

1. Select the gas type and concentration using the tables in the following pages to identify the base part number.
2. Complete the part number with the size of the gas cylinder required, i.e. -12 (12 L), -34 (34 L), -58 (58 L) or 110 (110 L).

Examples are given at the top of each table. To determine the price, cross-reference the Price Category shown for that gas with the table below.

Price Category	12 Litre/ea	34 Litre/ea	58 Litre/ea	110 Litre/ea
1	$51.00	$122.00	$183.00	$269.00
2		$154.00	$214.00	$302.00
3	$75.00	$170.00	$244.00	$356.00
4		$325.00	$488.00	$562.00

Instructions

Choose a gas from the table below, then combine the **Part Number** with the desired
Gas Volume. The Price Category column indicates the Price Level 1-4. Refer to the
Price Category table above for price details.

Examples:
GasCH4-22-Air-**12**
GasCH4-22-Air-**34**
GasCH4-22-Air-**58**
GasCH4-22-Air**110**

Part Number	Description	Gas Volume (L)			Price Category	Max. shelf life in months (12L)*	Max. shelf life in months (34L)*	Max. shelf life in months (58L/110L)*	Demand Flow Regulator for pumped devices and Docking stations	Manual Regulator for Honeywell portable gas detectors	Manual Regulator for Impulse/Impact (Pro)
Ammonia (NH$_3$)											
GasNH3-25-Air	25 ppm Ammonia in Air	-34	-58	110	4	12	12		REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasNH3-25-N2	25 ppm Ammonia in Nitrogen	-34	-58		4	12	12		REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasNH3-50-Air	50 ppm Ammonia in Air	-34	-58	110	4	12	12		REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasNH3-50-N2	50 ppm Ammonia in Nitrogen	-34	-58		4	12	12		REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasNH3-100-Air	100 ppm Ammonia in Air			110	4	12	12		REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasNH3-300-Air	300 ppm Ammonia in Air	-34	-58	110	4	12	12		REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasNH3-300-N2	300 ppm Ammonia in Nitrogen	-34	-58		4	12	12		REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasNH3-500-Air	500 ppm Ammonia in Air	-34			4	12	12			REG-1.0SS316	
GasNH3-1000-Air	1000ppm Ammonia in Air			110	4	12	12			REG-1.0SS316	
GasNH3-1000-N2	1000ppm Ammonia in N2			110	4	12	12			REG-1.0SS316	
GasNH3-2000-Air	2000ppm Ammonia in Air			110	4	12	12			REG-1.0SS316	
GasNH3-2000-N2	2000ppm Ammonia in N2			110	4	12	12			REG-1.0SS316	
Benzene (C$_6$H$_6$)											
GasC6H6-5-Air	5 ppm Benzene in Air	-34			3	60			REG-DF-1	Reg-0.50	
Butane (C$_4$H$_{10}$)											
GasC4H10-70-Air	0.70 % Butane in Air	-34	-58	110	1	60	60		REG-DF-1	Reg-0.50	Reg-0.30
GasC4H10-75-Air	0.75 % Butane in Air	-34	-58		1	60	60		REG-DF-1	Reg-0.50	Reg-0.30
Iso-Butane (IC$_4$H$_{10}$)											
GasIC4H10-75Air	0.75 % Iso-Butane in Air	-34	-58		1	60	60		REG-DF-1	Reg-0.50	Reg-0.30

Refer to the following page for minimum shelf life.   Note: Regulators must be ordered separately (see next page).

Instructions

Choose a gas from the table below, then combine the **Part Number** with the desired
Gas Volume. The Price Category column indicates the Price Level 1-4. Refer to the
Price Category table above for price details.

Examples:
GasCH4-22-Air-**12**
GasCH4-22-Air-**34**
GasCH4-22-Air-**58**
GasCH4-22-Air**110**

Part Number	Description	Gas Volume (L) 12	34	58	110	Price Category	Max. shelf life in months (12L)*	Max. shelf life in months (34L)*	Max. shelf life in months (58L/110L)*	Demand Flow Regulator for pumped devices and Docking stations	Manual Regulator for Honeywell portable gas detectors	Manual Regulator for Impulse/Impact (Pro)
Butadiene (C$_4$H$_6$)												
GasC4H6-5-Air	5 ppm Butadiene in Air				110	1			60	REG-DF-1	Reg-1.00	
Iso-Butylene (IC$_4$H$_8$)												
GasIC4H8-10-Air	10 ppm Iso-Butylene in Air		-34			1		60	60	REG-DF-1	Reg-0.50	
GasIC4H8-100Air	100 ppm Iso-Butylene in Air		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	
GasIC4H81000Air	1000 ppm Iso-Butylene in Air		-34			1		60		REG-DF-1	Reg-0.50	
Carbon Dioxide (CO$_2$)												
GASCO2-500AIR	500 ppm Carbon Dioxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GASCO2-500N2	500 ppm Carbon Dioxide in N2		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GASCO2-1000-AIR	1000 ppm(0.1%) Carbon Dioxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GASCO2-2000AIR	2000 ppm(0.2%) Carbon Dioxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GASCO2-2000N2	2000 ppm(0.2%)Carbon Dioxide in N2		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GASCO2-2500AIR	2500 ppm(0.25%) Carbon Dioxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GASCO2-2500N2	2500 ppm(0.25%) Carbon Dioxide in N2		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO2-5000Air	5000 ppm(0.5%) Carbon Dioxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO2-5000N2	5000ppm(0.5%)Carbon Dioxide in N2		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO2-1-Air	1% Carbon Dioxide in Air	-12	-34	-58	110	1	60	60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO2-1-N2	1% Carbon Dioxide in N2		-34		110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO2-25-Air	2.5% Carbon Dioxide in Air		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO2-2-Air	2% CO2 in Air		-34			1		60		REG-DF-1	Reg-0.50	Reg-0.30
GasCO2-5-N2	5% Carbon Dioxide in N2				110	1			60	REG-DF-1	Reg-0.50	Reg-0.30
Carbon Monoxide (CO)												
GasCO-20-Air	20 ppm Carbon Monoxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-20-N2	20 ppm Carbon Monoxide in N2		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-50-Air	50 ppm Carbon Monoxide in Air		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-50-N2	50 ppm Carbon Monoxide in Nitrogen		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-100-Air	100 ppm Carbon Monoxide in Air		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-100-N2	100 ppm Carbon Monoxide in Nitrogen		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-250-Air	250 ppm Carbon Monoxide in Air		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-250-N2	250 ppm Carbon Monoxide in N2		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-300-Air	300 ppm Carbon Monoxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-300-N2	300 ppm Carbon Monoxide in N2		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-500-Air	500 ppm Carbon Monoxide in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCO-500-N2	500 ppm Carbon Monoxide in Nitrogen		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
Chlorine (Cl2)												
GasCl2-5-N2	5 ppm Chlorine in Nitrogen		-34	-58		4		12	12	REG-DF-1	REG-1.0SS316	REG-0.5SS316
GasCl2-10-N2	10 ppm Chlorine in Nitrogen		-34	-58		4		12	12	REG-DF-1	REG-1.0SS316	REG-0.5SS316
Ethylene (C$_2$H$_4$)												
GasC2H4-115-Air	1.15%Vol Ethylene in Air (EU=50%LEL)		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasC2H4-135-Air	1.35%Vol Ethylene in Air (US=50%LEL)		-34	-58	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasC2H4-25-N2	25% Ethylene in N2				110	1		60			Reg-0.50	
Ethylene Oxide (ETO) (C$_2$H$_4$O)												
GasC2H4O-10-N2	10 ppm Ethylene Oxide in N2		-34	-58		1		6	6	REG-DF-1	REG-1.0SS316	
GASC2H4O-25-N2	10 ppm Ethylene Oxide in N2			-58		1		6	6	REG-DF-1	REG-1.0SS316	
Hexane (C$_6$H$_{14}$)												
GasC6H14-5-Air	0.5% Hexane in Air		-34	-58		1		60	60	REG-DF-1	Reg-0.50	Reg-0.30

Refer to the following page for minimum shelf life.   *Note: Regulators must be ordered separately (see next page).*

Instructions

Choose a gas from the table below, then combine the **Part Number** with the desired **Gas Volume**. The Price Category column indicates the Price Level 1-4. Refer to the Price Category table above for price details.

Examples:
GasCH4-22-Air-**12**
GasCH4-22-Air-**34**
GasCH4-22-Air-**58**
GasCH4-22-Air**110**

Part Number	Description	Gas Volume (L)	Price Category	Max. shelf life in months (12L)*	Max. shelf life in months (34L)*	Max. shelf life in months (58L/110L)*	Demand Flow Regulator for pumped devices and Docking stations	Manual Regulator for Honeywell portable gas detectors	Manual Regulator for Impulse/Impact (Pro)
Hydrogen (H_2)									
GasH2-200-Air	200 ppm Hydrogen in Air	-34	1		60		REG-DF-1	Reg-0.50	
GasH2-500-Air	500 ppm Hydrogen in Air	-34 -58 110	1		60	60	REG-DF-1	Reg-0.50	
GasH2-05-Air	0.5% Hydrogen in Air	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasH2-2-Air	2% Hydrogen in Air	-12 -34 -58 110	1	60	60	60	REG-DF-1	Reg-0.50	Reg-0.30
Hydrogen Chloride (HCl)									
GasHCl-10-N2	10 ppm Hydrogen Chloride in Nitrogen	-34	4		12			REG-1.0SS316	
Hydrogen Cyanide (HCN)									
GasHCN-10-N2	10 ppm Hydrogen Cyanide in Nitrogen	-34 -58	4		12	12	REG-DF-1	Reg-0.50	
Hydrogen Sulphide (H_2S)									
GasH2S-5-Air	5 ppm Hydrogen Sulphide in Air	-34	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-10-Air	10 ppm Hydrogen Sulphide in Air	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-10-N2	10 ppm Hydrogen Sulphide in Nitrogen	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-20-N2	20 ppm Hydrogen Sulphide in Nitrogen	-58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-25-Air	25 ppm Hydrogen Sulphide in Air	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-25-N2	25 ppm Hydrogen Sulphide in Nitrogen	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-40-N2	40 ppm Hydrogen Sulphide in Nitrogen	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-40-Air	40 ppm Hydrogen Sulphide in Air	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-50-Air	50 ppm Hydrogen Sulphide in Air	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
GasH2S-50-N2	50 ppm Hydrogen Sulphide in Nitrogen	-34 -58	2		24	24	REG-DF-1	Reg-0.50	Reg-0.30
Methane (CH_4)									
GasCH4-044-Air	0.44% Methane in Air	-34	1		60		REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-05-Air	0.5% Methane in Air	-34 110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-1-Air	1% Methane in Air	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-11-Air	1.1% Methane in Air	110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-125-Air	1.25% Methane in Air	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-22-Air	2.2% Methane in Air(ATEX area=50%LEL)	-12 -34 -58 110	1	60	60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-25-Air	2.5% Methane in Air (US= 50% LEL)	-12 -34 -58 110	1	60	60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-30-N2	3.0% Methane in Nitrogen	-58	1			60	REG-DF-1	Reg-0.50	Reg-0.30
GasCH4-50-N2	50% Methane in Nitrogen	-34 -58	1		60	60		Reg-0.50	
Methyl Mercaptan									
GASCH4S-5-Air	5 ppm Methyl Mercaptan in Air	-34 -58	4		24	24	REG-DF-1	Reg-0.50	
Nitric Oxide (NO)									
GasNO-10-N2	10 ppm Nitric Oxide in Nitrogen	-34 -58	4		12	12	REG-DF-1	Reg-0.50	
GasNO-25-N2	25 ppm Nitric Oxide in Nitrogen	-34 -58	4		12	12	REG-DF-1	Reg-0.50	
GasNO-50-N2	50 ppm Nitric Oxide in Nitrogen	-34 -58	4		12	12	REG-DF-1	Reg-0.50	
Nitrogen (N_2)									
GasN2-100	100% Nitrogen	-34 -58 110	1		60	60	REG-DF-1	Reg-0.50	
Nitrogen Dioxide (NO_2)									
GasNO2-5-Air	5 ppm Nitrogen Dioxide in Air	-34 -58	4		6	6	REG-DF-1	Reg-0.50	
GasNO2-10-Air	10 ppm Nitrogen Dioxide in Air	-34 -58	4		6	6	REG-DF-1	Reg-0.50	
Oxygen (O_2)									
GasO2-18-N2	18% Oxygen in Nitrogen	-34 -58 110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasO2-209-N2	20.9% Oxygen - Compressed Air	-34 -58 110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
Pentane (C_5H_{12})									
GasC5H12-7-Air	0.7% Pentane in Air	-34 -58 110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30

Refer to the following page for minimum shelf life.

Note: Regulators must be ordered separately (see next page).

Instructions

Choose a gas from the table below, then combine the **Part Number** with the desired **Gas Volume**. The Price Category column indicates the Price Level 1-4. Refer to the Price Category table above for price details.

Examples:
GasCH4-22-Air-**12**
GasCH4-22-Air-**34**
GasCH4-22-Air-**58**
GasCH4-22-Air**110**

Part Number	Description	Gas Volume (L)	Price Category	Max. shelf life in months (12L)*	Max. shelf life in months (34L)*	Max. shelf life in months (58L/110L)*	Demand Flow Regulator for pumped devices and Docking stations	Manual Regulator for Honeywell portable gas detectors	Manual Regulator for Impulse/Impact (Pro)
Phosphine (PH$_3$)									
GasPH3-05-N2	0.5ppm Phosphine in Nitrogen	-58	4			12	REG-DF-1	Reg-0.50	
GasPH3-1-N2	1 ppm Phosphine in Nitrogen	-58	4			12	REG-DF-1	Reg-0.50	
GasPH3-5-N2	5ppm Phosphine in Nitrogen	-58	4			12	REG-DF-1	Reg-0.50	
Propane (C$_3$H$_8$)									
GasC3H8-06-Air	0.6% Propane in Air	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasC3H8-85-Air	0.85% Propane in Air	-34 -58 110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasC3H8-09-Air	0.9% Propane in Air	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
GasC3H8-1-Air	1% Propane in Air	-12 -34 -58 110	1	60	60	60	REG-DF-1	Reg-0.50	Reg-0.30
GASC3H8-50-N2	50% Propane in Nitrogen	-34 -58	1		60	60		Reg-0.50	
Propylene (C$_3$H$_6$)									
GasC3H6-09-Air	0.9% Propylene in Air	-34 -58 110	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
Sulphur Dioxide (SO$_2$)									
GasSO2-5-N2	5 ppm Sulphur Dioxide in Nitrogen	-58	2			12	REG-DF-1	Reg-0.50	Reg-0.30
GasSO2-10-Air	10 ppm Sulphur Dioxide in Air	-34 -58	2		12	12	REG-DF-1	Reg-0.50	Reg-0.30
GasSO2-10-N2	10 ppm Sulphur Dioxide in Nitrogen	-34 -58	2		12	12	REG-DF-1	Reg-0.50	Reg-0.30
GasSO2-20-N2	20 ppm Sulphur Dioxide in Nitrogen	-34 -58	2		12	12	REG-DF-1	Reg-0.50	Reg-0.30
GasSO2-25-Air	25 ppm Sulphur Dioxide in Air	-34 -58	2		12	12	REG-DF-1	Reg-0.50	Reg-0.30
2 Gas Mixes									
2Gas18X162W-N2	1.62%CH4(PropaneEqui50%LEL)18%O2inN2	-34	1		60		REG-DF-1	Reg-0.50	Reg-0.30
2Gas18X125W-N2	1.25%CH4(PentaneEqui50%LEL)18%O2inN2	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
2Gas18X25W-N2	2.5% Methane /18% Oxygen in Nitrogen	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
2Gas18X22W-N2	2.2% Methane /18% Oxygen in Nitrogen	-34 -58	1		60	60	REG-DF-1	Reg-0.50	Reg-0.30
3 Gas Mixes									
3Ga18X25W100MN2	100 ppm Carbon Monoxide / 2.5% Methane / 18% Oxygen in Nitrogen	-34 -58	2		60	60	REG-DF-1	Reg-0.50	Reg-0.30
3Ga18X22W100MN2	100 ppm Carbon Monoxide / 2.2% Methane / 18% Oxygen in Nitrogen	-34 -58	2		60	60	REG-DF-1	Reg-0.50	Reg-0.30
3G18X25W50M-N2	50ppm CO- 2.5%CH4 (US= 50% LEL) 18%O2 in N2	110	2		60	60	REG-DF-1	Reg-0.50	Reg-0.30
3G18X22W50M-N2	50ppm CO- 2.2%CH4(ATEX=50% LEL) 18%O2 in N2	110	2		60	60	REG-DF-1	Reg-0.50	Reg-0.30
3G22W40H100MAir	40ppmH2S 100ppm CO 2.2%CH4 in Air	-58	2			24	REG-DF-1	Reg-0.50	Reg-0.30
Quad Gases									
4G18X07Pe25H100	25H2S-100CO-0.7%Pentane-18%O2in N2	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga20X22W10H50	10 ppm Hydrogen Sulphide / 50 ppm Carbon Monoxide / 50% LEL (2.2% Vol) Methane / 20.9% Oxygen in Nitrogen	-34	3		24		REG-DF-1	Reg-0.50	Reg-0.30
4Ga20X25W10H50	10 ppm Hydrogen Sulphide / 50 ppm Carbon Monoxide / 50% LEL (2.5% Vol) Methane / 20.9% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga18X22W10H50	10 ppm Hydrogen Sulphide / 50 ppm Carbon Monoxide / 50% LEL (2.2% Vol) Methane / 18% Oxygen in Nitrogen	-34	3		24		REG-DF-1	Reg-0.50	Reg-0.30
4Ga18X25W10H50	10 ppm Hydrogen Sulphide / 50 ppm Carbon Monoxide / 50% LEL (2.5% Vol) Methane / 18% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga20X25W25H50	25 ppm Hydrogen Sulphide / 50 ppm Carbon Monoxide / 50% LEL (2.5% Vol) Methane / 20.9% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30

Refer to the following page for minimum shelf life.

Note: Regulators must be ordered separately (see next page).

Instructions

Choose a gas from the table below, then combine the **Part Number** with the desired **Gas Volume**. The Price Category column indicates the Price Level 1-4. Refer to the Price Category table above for price details.

Examples:
GasCH4-22-Air-**12**
GasCH4-22-Air-**34**
GasCH4-22-Air-**58**
GasCH4-22-Air**110**

Part Number	Description	Gas Volume (L)	Price Category	Max. shelf life in months (12L)*	Max. shelf life in months (34L)*	Max. shelf life in months (58L/110L)*	Demand Flow Regulator for pumped devices and Docking stations	Manual Regulator for Honeywell portable gas detectors	Manual Regulator for Impulse/Impact (Pro)
Quad Gases (continued)									
4G18X125W25H100	25 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 1.25% Methane / 18% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga18X22W25H100	25 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.2% Methane / 18% Oxygen in Nitrogen	-12 -34 -58 110	3	3	24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga20X22W25H100	25 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.2% Methane / 20.9% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga18X25W25H100	25 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.5% Methane / 18% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga15X25W40H100	40 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.5% Methane / 15% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga15X22W40H100	40 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.2% Methane / 15% Oxygen in Nitrogen	-34	3		24		REG-DF-1	Reg-0.50	Reg-0.30
4Ga20X25W50	5000 ppm Carbon Dioxide / 50 ppm Carbon Monoxide / 50% LEL (2.5% Vol) Methane /20.9% Oxygen in Nitrogen	-34	3		60		REG-DF-1	Reg-0.50	Reg-0.30
4Gas15X25W40H2	40 ppm Hydrogen Sulphide / 2% Carbon Dioxide / 2.5% Methane / 15% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga17X25W50H200	50 ppm Hydrogen Sulphide / 200 ppm Carbon Monoxide / 2.5% Methane / 17% Oxygen in Nitrogen	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4G18X25W25H50N2	25ppm H2S 50ppm CO 2.5% CH4 (US=50%LEL) 18% O2 in N2	-58	3			24	REG-DF-1	Reg-0.50	Reg-0.30
4G18X22W25H50N2	25ppm H2S 50ppm CO 2.2% CH4 (ATE50%LEL) 18% O2 in N2	-58	3			24	REG-DF-1	Reg-0.50	Reg-0.30
4G18X162W25HMN2	25ppm H2S 50ppm CO 1.62% CH4 (Propa50%) 18% O2 in N2	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4G18X125W25HMN2	25ppm H2S 50ppm CO 1.25%CH4 (Penta50%) 18% O2 in N2	-58	3			24	REG-DF-1	Reg-0.50	Reg-0.30
4G18X11W25H100	H2S (25ppm), CO (100ppm), C3H8 (1.1%), O2 (18%), bal. N2	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4G18X85W25H100	H2S (25ppm), CO (100ppm), C3H8 (0.85%), O2 (18%), bal. N2	-34 -58 110	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
4Ga20X25W25H100	25 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.5% Methane / 20.9% O2 in N2	-34 -58	3		24	24	REG-DF-1	Reg-0.50	Reg-0.30
Five Gas Mixes									
5Gas18X25W25H	25 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.5% Methane /0.5% Carbon Dioxide / 18% Oxygen in N2	-34 -58	4		24	24	REG-DF-1	Reg-0.50	
5Gas18X22W25H	25 ppm Hydrogen Sulphide / 100 ppm Carbon Monoxide / 2.2% Methane /0.5% Carbon Dioxide / 18% Oxygen in N2	-34 -58	4		24	24	REG-DF-1	Reg-0.50	
5G15X22W40H100	H2S (40ppm), CO (100ppm), CO2 (2.0%), CH4 (2.2%), O2 (15%), bal. N2	-34	4		24		REG-DF-1	Reg-0.50	

Refer to the following page for minimum shelf life.

Note: Regulators must be ordered separately (see next page).

16. Calibration Gas and Equipment

Part Number	Description	750L Aluminium	110L Aluminium	58L Aluminium Bottles	34L Aluminium Bottles	EUR	PG
REG-750L	Manual Regulator For 750L aluminium bottles with CGA connector (0.5 LPM)	●				€ 547.00	D1
Reg-1.00	Manual regulator for disposable bottles 1 Litre Per Minute (1 LPM)		●	●	●	€ 141.00	D1
Reg-0.50	Manual regulator for disposable bottles 0.5 LPM (Liter per Minute)		●	●	●	€ 141.00	D1
Reg-0.30	Manual regulator for disposable bottles 0.5 LPM (Liter per Minute)		●	●	●	€ 141.00	D1
REG-0.5SS316	Manual Regulator For chlorine (Cl2) and ammonia (NH3) (0.5 LPM)		●	●	●	€ 283.00	D1
REG-1.0SS316	Manual Regulator For chlorine (Cl2), ammonia (NH3), nitrogen dioxide (NO2) and ETO (1 LPM)		●	●	●	€ 283.00	D1
REG-750L-DF	Demand Flow Regulator For 750L aluminium bottles with CGA connector	●				€ 553.00	D1
REG-DF-1	Demand Flow Regulator For disposable bottles and aluminium threaded steel valves		●	●	●	€ 341.00	D1

Manual Regulators / *Demand Flow Regulators*

Note: Demand flow regulators are required for use with detectors equipped with pumps or docking systems.

Note: A regulator is not required for 12L manual bump test bottles.

Part Number	Description	EUR	PG
MK-CG2-58	Cal Gas Wall Mount Holds 34 L, 58 L and 110 L gas cylinders	€ 136.00	D1
CG-RK-1	Bottle Striker-Depressurizes gas cylinders permanently for discarding, recycling and secure transport	€ 141.00	D1
CK-01	Plastic Carry Case Holds 2 gas cylinders	€ 103.00	D1
CB-01	Soft Carry Case For 3 gas cylinders	€ 113.00	D1

Calibration Gas

Cal Gas Wall Mount
MK-CG2-58

Regulator

Manual Regulator (1 LPM)

Demand Flow Regulator for Disposable Bottles

Maximum Shelf Life Given (months)	Minimum Shelf Life Expectancy (months)
6	4
12	10
18	15
24	20
60	54

Effective shelf life depends on the transportation and storage times and could potentially vary from the given maximum shelf life. Please refer to the production date label on the bottle before use

Plastic Carry Case
CK-01

Soft Carry Case
CB-01
For 3 gas cylinders

For 750L Aluminium Bottles with CGA Connector
REG-750L
0.5 LPM flow rate for refillable cylinder

Bottle Striker
CG-RK-1
Depressurizes gas cylinders permanently for discarding, recycling and secure transport
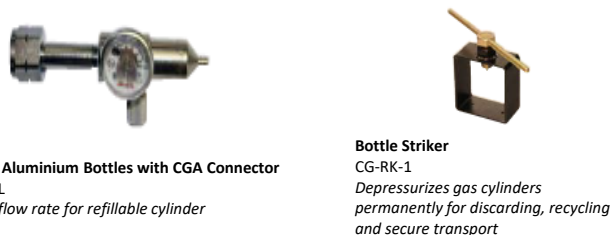
17. Tubes and Pumps

17.1 Honeywell Colorimetric Tubes

Part Number	Type	Shelf Life Months	Standard Range Standard Number of Pump Strokes	Extended Range Varied Number of Strokes	EUR	PG
H-10-111-40	Acetone	24 - 27	0.1 – 2%	0.05 – 4%	€ 39.00	A1
H-10-132-10	Amines	12 - 15	0.5 – 10 ppmv	0.25 – 20 ppmv	€ 39.00	A1
H-10-100-05	Ammonia	24 - 27	1 – 30 ppmv	0.5 – 60 ppmv	€ 39.00	A1
H-10-100-10	Ammonia	24 - 27	5 – 100 ppmv	2.5 – 200 ppmv	€ 39.00	A1
H-10-100-12	Ammonia	24 - 27	10 – 260 ppmv	5 – 520 ppmv	€ 39.00	A1
H-10-100-15	Ammonia	24 - 27	25 – 500 ppmv	12 – 1,000 ppmv	€ 39.00	A1
H-10-100-40	Ammonia	24 - 27	1 – 15%	0.5 – 30%	€ 39.00	A1
H-10-101-01	Benzene*	12 - 15	0.5 – 10 ppmv selective	0.25 – 30 ppmv	€ 39.00	A1
H-10-101-10	Benzene *	12 - 15	5.0 – 40 ppmv selective	25 – 200 ppmv	€ 39.00	A1
H-10-101-20	Benzene	12 - 15	5 – 100 ppmv	2.5 – 200 ppmv	€ 39.00	A1
H-10-135-04	Butadiene	24 - 27	0.5 – 5 ppmv	0.25 – 10 ppmv	€ 39.00	A1
H-10-137-30	Butane	24 - 27	25 – 1,400 ppmv	12.5 – 2,800 ppmv	€ 39.00	A1
H-10-104-30	Carbon Dioxide	24 - 27	300 – 5,000 ppmv	150 – 10,000 ppmv	€ 39.00	A1
H-10-104-40	Carbon Dioxide	24 - 27	0.05 – 1%	0.025 – 2%	€ 39.00	A1
H-10-104-45	Carbon Dioxide	24 - 27	0.25 – 3%	0.12 – 6%	€ 39.00	A1
H-10-104-50	Carbon Dioxide	24 - 27	1 – 20%	0.25 – 50%	€ 39.00	A1
H-10-104-60	Carbon Dioxide	24 - 27	5 – 40%	1.25 – 70%	€ 39.00	A1
H-10-102-18	Carbon Monoxide	24 - 27	5 – 100 ppmv selective	2.5 – 200 ppmv	€ 39.00	A1
H-10-102-20	Carbon Monoxide	24 - 27	5 – 100 ppmv	2.5 – 200 ppmv	€ 39.00	A1
H-10-102-30	Carbon Monoxide	24 - 27	20- 500	10 – 1000 ppmv	€ 39.00	A1
H-10-102-45	Carbon Monoxide	24 - 27	0.2 – 4%	0.05 – 4%	€ 39.00	A1
H-10-106-10	Chlorine	12 - 15	0.5 – 8 ppmv	0.25 – 16 ppmv	€ 39.00	A1
H-10-106-20	Chlorine	12 - 15	5 – 100 ppmv	2.5 – 200 ppmv	€ 39.00	A1
H-10-130-10	Chlorine Dioxide	12 - 15	0.25 – 15 ppmv	0.05 – 30 ppmv	€ 39.00	A1
H-10-143-10	Diesel & Jet Fuel	12 - 15	0.5 – 25 ppmv	N/A	€ 39.00	A1
H-10-141-30	Ethanol	24 - 27	100 – 2000 ppmv	50 – 2000 ppmv	€ 39.00	A1
H-10-121-05	Formaldehyde	24 - 27	0.1 – 5 ppmv	0.8 – 40 ppmv	€ 39.00	A1
H-10-138-30	Gasoline	24 - 27	30 – 1000 ppmv	15 – 2000 ppmv	€ 39.00	A1
H-10-110-30	Hydrocarbons	24 - 27	50 – 1,000 ppmv	25 – 2,000 ppmv	€ 39.00	A1
H-10-108-09	Hydrogen Chloride	24 - 27	1 – 20 ppmv	0.5 – 40 ppmv	€ 39.00	A1
H-10-108-10	Hydrogen Chloride*	24 - 27	1 – 20 ppmv w/ desiccant	0.5 – 40 ppmv	€ 39.00	A1
H-10-108-22	Hydrogen Chloride	24 - 27	20 – 500 ppmv	10 – 1000 ppmv	€ 39.00	A1
H-10-126-10	Hydrogen Cyanide	12 - 15	2.5 – 60 ppmv	1.25 – 120 ppmv	€ 39.00	A1
H-10-105-10	Hydrogen Fluoride	24 - 27	0.5 – 20 ppmv	0.25 – 40 ppmv	€ 39.00	A1
H-10-103-04	Hydrogen Sulfide	12 - 15	0.2 – 3 ppmv	0.1 – 6 ppmv	€ 39.00	A1
H-10-103-05	Hydrogen Sulfide*	12 - 15	0.2 – 3 ppmv w/ desiccant	0.1 – 6 ppmv	€ 39.00	A1
H-10-103-06	Hydrogen Sulfide	12 - 15	1 – 7 ppmv	0.5 – 7 ppmv	€ 39.00	A1
H-10-103-10	Hydrogen Sulfide	12 - 15	2.5 – 60 ppmv	1.25 – 120 ppmv	€ 39.00	A1
H-10-103-12	Hydrogen Sulfide	24 - 27	0 – 150 ppm	0 – 300 ppm	€ 39.00	A1
H-10-103-15	Hydrogen Sulfide	24 - 27	10 – 120 ppmv	5 – 240 ppmv	€ 39.00	A1
H-10-103-18	Hydrogen Sulfide	24 - 27	25 – 250 ppmv	12.5 – 500 ppmv	€ 39.00	A1
H-10-103-20	Hydrogen Sulfide	24 - 27	50 – 800 ppmv	25 – 1,600 ppmv	€ 39.00	A1
H-10-103-30	Hydrogen Sulfide	24 - 27	100 – 2,000 ppmv	50 – 4,000 ppmv	€ 39.00	A1
H-10-103-40	Hydrogen Sulfide	24 - 27	0.1 – 2%	0.05 – 4%	€ 39.00	A1
H-10-103-50	Hydrogen Sulfide	24 - 27	2 – 40%	0.5 – 70%	€ 39.00	A1
H-10-113-20	MEK	24 - 27	0.02 – 0.6 %	0.01 – 1.8 %	€ 39.00	A1
H-10-129-20	Mercaptans	12 - 15	5 – 120 ppmv	2.5 – 240 ppmv	€ 39.00	A1
H-10-131-10	Methyl Bromide	24 - 27	1 – 18 ppmv	0.5 – 36 ppmv	€ 39.00	A1
H-10-131-30	Methyl Bromide	24 - 27	20 – 300 ppmv	10 – 600 ppmv	€ 39.00	A1
H-10-146-20	Nitric Acid	24 - 27	1 – 20 ppm	0.5 – 40 ppm	€ 39.00	A1
H-10-117-10	Nitrogen Dioxide	12 - 15	0.5 – 30 ppmv	N/A	€ 39.00	A1
H-10-109-20	Nitrogen Oxides*	12 - 15	1 – 50 ppmv	0.5 – 100 ppmv	€ 39.00	A1
H-10-133-03	Ozone	12 - 15	0.05 – 0.6 ppmv	0.15 – 1.8 ppmv	€ 39.00	A1
H-10-139-05	Phenol	18 - 21	1 – 25 ppmv	0.5 – 180 ppmv	€ 39.00	A1
H-10-116-10	Phosphine	12 - 15	5 – 50 ppmv	2.5 – 100 ppmv	€ 39.00	A1
H-10-116-20	Phosphine	12 - 15	25 – 500 ppmv	12.5 – 1,000 ppmv	€ 39.00	A1
H-10-116-25	Phosphine	12 - 15	50 – 1,000 ppmv	25 – 2,000 ppmv	€ 39.00	A1
H-10-107-15	Sulfur Dioxide	24 - 27	2 – 30 ppmv	1 – 60 ppmv	€ 39.00	A1
H-10-107-20	Sulfur Dioxide	24 - 27	5 – 100 ppmv	2.5 – 200 ppmv	€ 39.00	A1
H-10-107-25	Sulfur Dioxide	24 - 27	100 – 1,800 ppmv	50 – 3,600 ppmv	€ 39.00	A1
H-10-107-30	Sulfur Dioxide	24 - 27	200 – 4,000 ppmv	50 – 4,000 ppmv	€ 39.00	A1
H-10-107-40	Sulfur Dioxide	24 - 27	0.2 – 5 %	0.1 – 10 %	€ 39.00	A1
H-10-114-20	Toluene	12 - 15	10 – 300 ppmv	5 – 600 ppmv	€ 39.00	A1
H-10-119-20	Trichloroethylene*	12 - 15	5 – 100 ppmv	2.5 – 230 ppmv	€ 39.00	A1
H-10-128-10	Vinyl Chloride *	24 - 27	1 – 20 ppmv	0.5 – 40 ppmv	€ 39.00	A1
H-10-120-10	Water Vapor	24 - 27	2-10 lbs/MMCF(0.03-0.16 mg/L)	1 – 20 lbs/MMCF	€ 39.00	A1
H-10-120-20	Water Vapor	24 - 27	6-40 lbs/MMCF(0.1-0.64 mg/L)	3 – 80 lbs/MMCF	€ 39.00	A1
H-10-120-30	Water Vapor	24 - 27	0.05 – 1 mg/L	0.025 – 2 mg/L	€ 39.00	A1
H-10-120-40	Water Vapor	24 - 27	1 – 18 mg/L	0.5 – 32 mg/L	€ 39.00	A1
H-10-112-20	Xylene	24 - 27	10 – 200 ppmv	5 – 400 ppmv	€ 39.00	A1

*Asterisk indicates boxes containing 5 colorimetric tubes and 5 pre-tubes, for a total of 5 measurements. Standard boxes w/o asterisk have 10 tubes.

17. Tubes and Pumps

17.2 Honeywell Piston Hand Pump (Model LP-1200)

Piston Hand Pump Kit includes:
• 50/100 ml Piston Hand Pump – Model LP-1200
• Spare inlet filters (2)
• Spare rubber inlet
• Spare plunger gasket
• Carrying case

Part Number	Description	EUR	PG
H-010-0901-000	Hand Pump Only	€ 205.00	A1
H-010-0001-000	Hand Pump Kit	€ 221.00	A1

17.3 Honeywell Smoke Generation

Part Number	Description	EUR	PG
H-10-123-01	Smoke Tubes (Stannic Chloride Irritant, 6 tubes/box)*	€ 39.00	A1
H-010-0004-000	Smoke Kit (aspirator bulb, tip breaker, box smoke tubes, leather case)	€ 78.00	A1

*Asterisk indicates boxes containing 5 colorimetric tubes and 5 pre-tubes, for a total of 5 measurements. Standard boxes w/o asterisk have 10 tubes.

17.4 Honeywell Tube and Pump Accessories

Part Number	Description	Use With…	EUR	PG
H-010-2002-000	Smoke tube aspirator bulb	Smoke tubes	€ 24.00	A1
H-010-2002-005	Smoke tube aspirator bulb (kit of 5)	Smoke tubes	€ 112.00	A1
H-010-2003-000	Colorimetric tube tip breaker	Tubes	€ 16.00	D1
H-010-2007-000	Tube reader	ALL	€ 11.00	D1
H-010-3006-000	LP-1200 Accessory Kit (3 rubber inlets & filters, 2 gaskets, lubricant)	ALL	€ 34.00	D1
H-010-3007-000	Tube adaptor and cut assembly	ALL	€ 60.00	D1
H-010-3009-015	Remote sampling hose, 15' (5m), and adapter assembly	ALL	€ 94.00	D1
H-010-3009-035	Remote sampling hose, 35' (11m), and adapter assembly	ALL	€ 156.00	D1
H-010-4003-000	Handbook of Gas Detection Tubes and Sampling Pumps	ALL	€ 34.00	D1
701-0009-000	RAE Soft Leather Case	ALL	€ 41.00	D1

17.5 RAE Specialty Tubes (For use with RAE Monitors)

Part Number	Description	EUR	PG
012-2502-005	VOC Tubes for UltraRAE 3000+ Monitor (5 tubes/box)	€ 44.00	D2
012-3022-010	RAE-Sep™ Benzene Separation Tubes for UltraRAE 3000+ Series Monitor (requires 9.8 eV lamp) (10 tubes/box)	€ 87.00	D2
012-3024-010	RAE-Sep™ Butadiene Separation Tubes for UltraRAE 3000+ Series Monitor (10 tubes/box) (requires 9.8 eV lamp)	€ 87.00	D2
012-3023-010	RAE-Sep™ Halocarbon Separation Tubes for UltraRAE 3000+ Series Monitor (10 tubes/box) (requires 11.7 eV lamp)	€ 87.00	D2
M01-0312-000	Benzene Separation Tubes Cartridges (6 cartridges/box)	€ 300.00	D2
025-2000-010	VOC Zeroing for PID (Single Use) Disposable (10 tubes/box)	€ 46.00	D2
025-2002-010	Humidity Filtering II Removes humidity during most PID measurements (10 tubes/box)	€ 46.00	D2
025-2003-010	VOC/CO2 Zeroing Tubes for IAQRAE and MultiRAE IR Monitors (10 tubes/box)	€ 46.00	D2

18. Training

Honeywell Analytics is committed to improving the competence and confidence of our customers by providing the highest quality application and technical training on our industry leading Gas Detection products.

Our training centres across EMEA continually run courses that are designed to provide a thorough understanding of Honeywell Analytics products and services, as well as their operation and maintenance.

Honeywell's commitment to providing technical training courses designed to assist you in meeting your obligations of providing a safe working environment with Honeywell quality products and user and maintenance courses. The End User & Service Technicians Training programs provide information on the proper use, operation and maintenance of all Honeywell products. The Technical Maintenance courses are designed to provide service personnel with the pertinent maintenance information, as well as a more detailed explanation of Honeywell product technology. All training courses are certificated.

Our team of professional instructors use a variety of unique and interactive training techniques to keep delegates engaged and involved while they learn. Our courses are packed full with a variety of interesting training resources, including audio, video.

Courses are run in our Training Centre in Poole, UK, Munich, Germany, Roissy, Paris & Dubai, U.A.E along with remote training venues throughout Europe.

All delegates whose certificates have expired will need to be re-certified and deemed competent by taking part in an authorised re-certification course. This enables them and your company to continue with approved service and maintenance of your certified product.

18.1 RAE Wireless Training Course Module 1 (2 Days)

Join the Honeywell Gas Detection Team for the latest information on our industry-leading line of wireless solutions. Learn about our company, products and how to use them, become familiar with how our wireless solutions can improve many applications. We aim to give delegates the skills and knowledge required to plan and set up basic and advanced wireless gas monitoring, as well as fault-finding on a theoretical and practical level. Topics include:

• Gas Detection Theory
• Gas Detection Technologies
• Hands-on Product Demonstrations
• Wireless Theory

• Wireless Solutions
• Software Demonstrations
• Data Management

Typical Course Agenda:
Day 1: Gas Detection Theory, Sensor Technologies, Wireless Theory, Wireless Solutions
Day 2: Hands-on Setup of Wireless Units, ProRAE Guardian, Wireless Practical Exercises

Certificates of attendance will be awarded upon the successful completion of an assessment (written and practical). Certificates have a 2 year validity. Registration is subject to approval by Honeywell.

Description	EUR PG
RAE Wireless Training Course Module 1 (2 Days)	€ 480.00 NET

18.2 RAE Portable Service Level Training Course Module 2 (3 Days)

Join the Honeywell Portable Gas Detection Team for the latest information on our industry-leading line of portable gas monitors. Learn about our company, products and how to use them, become familiar with how our personal gas monitors function. We aim to give delegates the skills and knowledge required to use and perform maintenance on RAE Systems portable gas monitoring equipment. To enable devices to be correctly repaired and recalibrated. Topics include:

• Gas Detection Theory
• Gas Detection Technologies
• Hands-on Product Demonstrations

• Maintenance and Calibration
• Data Management

Typical Course Agenda:
Day 1: Gas Detection Theory, Sensor Technologies, ToxiRAE II, ToxiRAE 3, QRAE II, AutoRAE Lite
Day 2: QRAE 3, ToxiRAE Pro, 3000 Family PID, AutoRAE 2, RAELink3 Z1 / Z1 Mesh
Day 3: EchoView Host and Mesh Router, MultiRAE Family, AreaRAE Steel

Certificates of attendance will be awarded upon the successful completion of an assessment (written and practical). Certificates have a 2 year validity. Registration is subject to approval by Honeywell.

Description	EUR PG
RAE Portable Service Level Training Course Module 2 (3 Days)	€ 720.00 NET

18.3 RAE Fixed Service Level Training Course Module 3 (2 Days)

Join the Honeywell Fixed Gas Detection Team for the latest information on our industry-leading line of fixed gas monitors. Learn about our company, products and how to use them, become familiar with how our fixed gas monitors function. We aim to give delegates the skills and knowledge required to use and perform maintenance on RAE Systems fixed gas monitoring equipment. To enable devices to be correctly repaired and recalibrated. Topics include:

• Gas Detection Theory
• Gas Detection Technologies
• Hands-on Product Demonstrations

• Maintenance and Calibration
• Data Management

Typical Course Agenda:
Day 1: Gas Detection Theory, Sensor Technologies, RAEGuard 2 PID, MeshGuard Detectors
Day 2: FMC 2000, RAEPoint, PowerPak, SolarPak, EchoView and Mesh Router

Certificates of attendance will be awarded upon the successful completion of an assessment (written and practical). Certificates have a 2 year validity. Registration is subject to approval by Honeywell.

Description	EUR PG
RAE Fixed Service Level Training Course Module 3 (2 Days)	€ 480.00 NET

18.4 RAE Re-Certification Service Level Training Course (2 Days / 3 Days)

Join the Honeywell Gas Detection Team for this two-day refresher of your current Service Training certification. Refresh your knowledge of our products and how to use them. We aim to ensure delegates have the skills and knowledge required to use and perform advanced maintenance on RAE Systems gas monitoring and wireless equipment, and are informed of recent changes or additions to this range. Topics include:

• Gas Detection Theory
• Gas Detection Technologies
• Hands-on Product Demonstrations

• Maintenance and Calibration
• Data Management

Typical Course Agenda:
Day 1: Gas Detection Theory, Sensor Technologies, Refresher Training Existing Products
Day 2: Introduction / Training on Existing/New Products (as available)
Day 3: Optional - Re-Certification MeshGuard/Fixed Products – Additional Costs Per Person: EUR 365

Certificates of attendance will be awarded upon the successful completion of an assessment (written and practical). Certificates have a 2 year validity. Registration is subject to approval by Honeywell.

Description	EUR PG
RAE Re-Certification Service Level Training Course (2 Days)	€ 700.00 NET

19. Standard Limited Warranty

RAE Systems by Honeywell warrants products manufactured and sold by RAE Systems to be free from defects in materials and workmanship for the periods listed in the tables on the following pages. This warranty is expressly limited to the original owner who purchases the equipment directly from RAE Systems or from an authorized RAE Systems Distributor.

To maintain this limited warranty, the product must be operated, calibrated, and maintained in accordance with the Operation and Maintenance Manual supplied with the product. Abuse, mechanical damage, alteration, or repairs not made in accordance with the Operation and Maintenance Manual void the RAE Systems Standard Limited Warranty. The obligation of RAE Systems under this limited warranty is limited to the repair or replacement of components deemed by the RAE Systems Technical Support Center to have been defective under the scope of this Standard Limited Warranty.

To receive consideration for warranty repair or replacement, the product must be returned to a RAE Authorized Service Partner or to RAE Systems in San Jose, California, USA, with transportation and shipping charges prepaid. If the product is being returned to RAE Systems, it is necessary to obtain a return authorization number (RMA) from RAE Systems prior to shipment. This limited warranty is expressly in lieu of any and all representations, express or implied, including but not limited to the warranty of fitness for a particular purpose.

RAE Systems will not be liable for loss or damage of any kind connected to the use of its products or failure of its products to function or operate properly.
RAE Systems Standard Limited Warranty covers the instrument and its critical components as follows:

Instruments	Warranty Period
MultiRAE Family	Two years from date of original purchase
ToxiRAE Pro Family	Two years from date of original purchase
MicroRAE	Two years from date of original purchase
QRAE 3	Two years from date of original purchase
MiniRAE 3000, MiniRAE Lite, ppbRAE 3000, UltraRAE 3000: electronic printed circuit boards, switch panels, displays, and enclosures	One year from the date of original purchase
AreaRAE, RAELink3, Solar Panel System, Rapid Deployment Kit	One year from the date of original purchase

Instrument Components	Warranty Period
Battery packs, sampling pumps, and other components (either installed in an instrument or purchased separately), which by their design are consumed or depleted during normal operation, or which may require periodic replacement	One year from the date of original purchase

Sensors and Lamps	Warranty Period
O_2, LEL, H_2S, and CO sensors	2 Years (see below)
O_2, LEL, H_2S, and CO sensors used in QRAE3	3 Years (see below)
4R+ sensors used in MultiRAE Series, ToxiRAE Pro, AreaRAE Plus and Pro: liquid O_2 sensor	4 Years
H_2S, CO sensors	3 Years
All other electrochemical toxic gas sensors	1 Year (See Below)
10.6eV photoionization detector lamps for MiniRAE Lite+, MiniRAE 3000+ and ppbRAE 3000+	3 Years
10.6eV photoionization detector lamps for MultiRAE, ToxiRAE Pro, MultiRAE Plus, and RAEGuard PID	1 Year
9.8eV photoionization detector lamps	6 Months
11.7eV photoionization detector lamps	30 Days

Oxygen (O_2), combustible gas (LEL) and electrochemical sensors are normally consumed during their service life. RAE Systems and RAE Authorized S Partners will replace defective sensors under the following terms:
● Sensors with two-year warranties (O2, LEL, H2S, CO) that fail in their first year of service will be replaced with a sensor having a remaining warranty at least equa to that of the replaced sensor, up to a maximum of two years, at the option of RAE Systems or a RAE Authorized Service Partner.
● Sensors with two-year warranties (O2, LEL, H2S, CO) that fail in their second year of service will be replaced with a sensor having a remaining warranty at least equal to that of the replaced sensor, up to a maximum of one year, at the option of RAE Systems or a RAE Authorized Service Partner.
● Sensors with one-year warranties (all other electro-chemical sensors) that fail will be replaced with a sensor having a remaining warranty at least equal to that of the replaced sensor, up to a maximum of one year, at the option of RAE Systems or a RAE Authorized Service Partner.

Damage to combustible (LEL) sensors incurred by exposure to known sensor poisons (such as silicones, tetra-ethyl-lead, and/or other substances as noted in the operator's manual) may (at the unilateral discretion of the RAE Systems Customer Advocacy Department) void this warranty as it applies to the replacement of combustible sensors.

QRAE 3 sensors (sensor shipped with product). RAE Systems and RAE Authorized Service Partners will replace defective sensors under the following
● Sensors with three-year warranties (O2, LEL, H2S, CO) that fail in their first year of service will be replaced with a sensor having a remaining warranty at least equal to that of the replaced sensor, up to a maximum of three years, at the option of RAE Systems or a RAE Authorized Service Partner.
● Sensors with three-year warranties (O2, LEL, H2S, CO) that fail in their second year of service will be replaced with a sensor having a remaining warranty at least equal to that of the replaced sensor, up to a maximum of two years, at the option of RAE Systems or a RAE Authorized Service Partner.
● Sensors with three-year warranties (O2, LEL, H2S, CO) that fail in their third year of service will be replaced with a sensor having a remaining warranty at least equal to that of the replaced sensor, up to a maximum of one year, at the option of RAE Systems or a RAE Authorized Service Partner.

19. Standard Limited Warranty

19.1 Warranty Matrix

| | Model | Product | Instrument[1] | Components[2] | PID Lamps | | | Sensors | | | |
					9.8 eV	10.6 eV	11.7 eV	LEL, O₂	H₂S, CO	O₂ liquid	All others
Single Gas	PGM-18xx	ToxiRAE Pro	2 Yrs	1 Yr	6 Mos	1 Yr	NA	2 Yrs	3 Yrs	4 Yrs	1 Yr
	PGM-1700	ToxiRAE 3	2 Yrs	NA	NA	NA	NA	2 Yrs	2 Yrs	NA	NA
Multi Gas	PGM-62x8	MultiRAE Family	2 Yrs	1 Yr	6 Mos	1 Yr	NA	2 Yrs	3 Yrs	4 Yrs	1 Yr
	PGM-5x20	AreaRAE	1 Yr	1 Yr	6 Mos	1 Yr	1 Mo	2 Yrs	2 Yrs	NA	1 Yr
	PGM-25xx	QRAE 3	2 Yrs	2 Yr	NA	NA	NA	3 Yrs[3]	3 Yrs[3]	3 Yrs[3]	1 Yr
	PGM-26xx	MicroRAE	2 Yrs	2 Yr	NA	NA	NA	2 Yrs	2 Yrs	2 Yrs	1 Yr
PID	PGM-7300	MiniRAE Lite+	1 Yr	1 Yr	NA	3 Yrs	NA	NA	NA	NA	NA
	PGM-7320	MiniRAE 3000+	1Yr	1 Yr	6 Mos	3 Yrs	1 Mo	NA	NA	NA	NA
	PGM-7360	UltraRAE 3000+	1 Yr	1 Yr	6 Mos	3 Yrs	1 Mo	NA	NA	NA	NA
	PGM-7340	ppbRAE 3000+	1Yr	1 Yr	6 Mos	3 Yrs	1 Mo	NA	NA	NA	NA
AutoRAE 2	DKS-6000	AutoRAE 2 Controller	2 Yrs	NA	NA	NA	NA	NA	NA	NA	NA
	DKS-6001	MultiRAE Cradle	2 Yrs	NA	NA	NA	NA	NA	NA	NA	NA
	DKS-6002	ToxiRAE Pro Cradle	2 Yrs	NA	NA	NA	NA	NA	NA	NA	NA
	DKS-6003	QRAE 3 Cradle	2 Yrs	NA	NA	NA	NA	NA	NA	NA	NA
	DKS-6005	3G PID Cradle	2 Yrs	NA	NA	NA	NA	NA	NA	NA	NA
		MicroRAE Cradle	2 Yrs	NA	NA	NA	NA	NA	NA	NA	NA
PRD	Various	PRDs	1 Yr	NA	NA	NA	NA	NA	NA	NA	NA

[1] Product electronics, switch panels, enclosures, displays

[2] Sampling pumps, rechargeable batteries, PID fan

[3] LEL, O₂, H₂S, CO sensors for QRAE 3 are warranted for 3 years only if shipped inside a brand new product. Same sensors purchased as spare parts are 2 years warranty only.

20. Freight and Minimum Order Value

Minimum Order Value

The minimum order value is EUR 700 net. This applies to all purchase orders for new portable instruments and/or associated spares and accessories.
Minimum Order Value does not apply to "warranty sales orders", "service orders" including a labor item (repair) or orders including only "consumables with a shelf-life" as in Chemcassettes, replacement sensors, PID lamps, cartridges and calibration gas canisters.

Low Order Value

Orders that are placed with a net value below the minimum order value will incur a "low order value administration fee" in addition to the net value of the goods:

Part Number	Description	EUR	PG
LOVAF	Low order value administration fee	€ 73.00	NET

20.1 Transport and Export Documents

Part Number	Description	EUR	PG
COO1X	A Certificate of Origin (often abbreviated to C/O or COO) is a document used in international trade. It is a printed form, completed by the exporter or its agent and certified by an issuing body, attesting that the goods in a particular export shipment have been wholly produced, manufactured or processed in a particular country.	€ 68.00	NET
COC1X	Type Approval or Certificate of Conformity is granted to a product that meets a minimum set of regulatory, technical and safety requirements. Generally, type approval is required before a product is allowed to be sold in a particular country, so the requirements for a given product will vary around the world. Processes and certifications known as Type Approval in English are generally called Homologation, or some cognate expression, in other European languages.	€ 39.00	NET
ATR.1	ATR.1 certificate for Turkey	€ 68.00	
DOCCO	Documentary Collection*	Subject to Quote	
SASO_CERT	SASO CoC (Saudi Arabian Standards Organization) Certificate of Conformity	Subject to Quote	
SONCAP_CERT	SONCAP CoC (Standards Organization of Nigeria) Certificate of Conformity	Subject to Quote	
LEGOD	Legalisation of documents*	Subject to Quote	
LETOC	Letter of Credit*	Subject to Quote	

* Prices for CoO legalised by embassies and other export documents may vary depending on the shipped-to country. For more information, please contact your Customer Service Representative.

20.2 Freight and Minimum Order Value

Detailed within the following tables are the freight charges for Dangerous Goods (DG) and Non Dangerous Goods. The costs outlined are for FREIGHT ONLY and all duty and taxes are the customer's responsibility to pay locally.

Freight part numbers and cost calculations:
If the order is shipping complete; calculate the freight charges of the material using the standard freight policy and ADD to that the Dangerous Goods (DG) freight cost which can be calculated using the relevant table overleaf.

Example 1 – calculating freight charges for an order with Non DG and DG goods:
1. Chose the zone (1 to 7) based on the country of destination
2. Based on the value of the order, first determine the cost for the non DG goods (see the first table)
3. Add to that, the cost for the DG goods (see the second table). If FedEx does not ship to your country you will need to ask for a quote.

Example 2 – calculating freight for an order with gas only
You will need to follow the same steps as outlined above. Despite not having any non DG goods, this still forms a basis of the charges.

Non Dangerous Goods

Order Value (€, $, £)	UK	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	PG
0 to 5,000	£14.00	€ 38.00	€ 50.00	€ 60.00	€ 71.00	€ 81.00	$98.00	$130.00	NET
5,000 to 10,000	£20.00	€ 55.00	€ 65.00	€ 76.00	€ 98.00	€ 130.00	$162.00	$205.00	NET
Above 10,000	£49.00	€ 71.00	€ 98.00	€ 119.00	€ 141.00	€ 162.00	Subject to quote [minimum $205.00]	Subject to quote [minimum $250.00]	NET

20. Freight and Minimum Order Value

Dangerous Goods (DG) - Gas Bottles and Batteries

	UK	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	PG
Calibration gas bottles (carrier to be determined)	Cost of shipment plus £ 34.00	Cost of shipment plus € 55.00	Cost of shipment plus € 55.00	Cost of shipment plus € 55.00	Cost of shipment plus € 55.00	Cost of shipment plus € 55.00	Subject to quote	Subject to quote	NET
Batteries	Subject to quote								NET

Note: The full shipping address including postcode must be confirmed at time of order.

Non Honeywell Preferred Couriers

For any shipments via a non Honeywell preferred courier, an additional cost as shown below will need to be added to the above values

	UK	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	PG
Additional Cost	£29.00	€ 28.00	€ 28.00	€ 28.00	€ 28.00	€ 28.00	$28.00	$28.00	NET

Note: Shipments sent via customer preferred/ non Honeywell preferred couriers are not guaranteed next day delivery

Countries Delivered to Within Each Zone

Any country or region not listed will be subject to a quote for every order. This can be obtained from your local Honeywell Representative

UK	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7
UK	Belgium	France	Austria	Andorra	Canada	Middle East	C. I. S.
N Ireland	S. Ireland	Germany	Denmark	Cyprus	Gibraltar	South Africa	Caspian
	Luxemburg		Finland	Czech	Norway	North Africa	Baltics
	Holland		Greece	Hungary	Switzerland	Israel	Moldova
			Italy	Latvia	Turkey		
			Portugal	Malta	Serbia		
			Spain	Monaco			
			Sweden	Poland			
				Slovakia			
				Romania			
				Croatia			
				Slovenia			
				Bulgaria			

Important Notes:
- Honeywell preferred couriers are not guaranteed next day and the shipment can take up to 5 days in some territories.
- One purchase order = One shipping charge including all consolidated shipments.
- Partial Shipments will be charged for each individual shipment if the customer request is outside of the Honeywell standard delivery times.
- Guaranteed next day / start of day (09.00 hrs)/ midday express services (12.00 hrs) - are subject to a quote upon request. There is no guarantee this service is available for all territories.

Shipment methods

Shipment method	Description
Honeywell preferred courier (FOC)	FOC shipping MUST USE Honeywell preferred courier (All Warranty)
Customer own account/freight forwarder	Customer requests own account or freight forwarder
Honeywell preferred courier (chargeable)	Chargeable shipment using Honeywell preferred courier
Customer collect	Walk in collection by customer
Customer preferred	Customer has requested a non Honeywell preferred courier
Dangerous Goods	All dangerous goods - subject to quote

21. End Of Life Products

Part Number	Description	Product Range	Last Order Date	EUR	PG
029-7114-000	Antenna assembly for AreaRAE detector. Includes 5 dB antenna and brass coupler (869MHz).	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 216.00	D1
029-7115-000	Antenna, 869MHz male RPSMA, flexible	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 68.00	D1
029-7117-000	Antenna magnetic mount base with 12' cable (869MHz)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 113.00	D1
029-3028-000	RAELink2E Host Serial Cable Assembly (Connects RAELink2E Host to a PC)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 104.00	D1
490-3027-002	Replacement keys for FMC-2000 controller. Pack of 2.	FMC 2000	End of 2021 or As Stock Lasts	€ 29.00	UC
008-1111-000	Hydrogen Sulfide sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 228.00	D2
008-1112-000	Carbon Monoxide sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 228.00	D2
008-1113-000	Sulfur Dioxide sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 334.00	D2
008-1114-000	Nitric Oxide sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 319.00	D2
008-1115-000	Nitrogen Dioxide sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 319.00	D2
008-1116-001	Chlorine sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 334.00	D2
008-1117-000	Hydrogen Cyanide sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 486.00	D2
008-1119-000	Phosphine sensor (interchangeable)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 334.00	D2
008-1125-000	Ammonia Unbiased Sensor Module	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 486.00	D2
008-1126-000	Carbon Monoxide high range (0-2000, 10 ppm res)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 341.00	D2
008-1127-000	Sensor Module, HF, 4R (AreaRAE Steel only)(Must be used with gas plate 029-3110-000)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 483.00	D2
008-1161-000	Oxygen sensor (2 year)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 196.00	D2
008-1171-001	Combustible gas sensor	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 228.00	D2
008-2009-000	DUMMY SENSOR,PGM-50 WARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 7.00	D2
008-2009-005	Dummy sensor block	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 34.00	D2
008-3007-001	PID sensor assembly for ¼" PID lamps	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 119.00	D2
029-2028-000	DUMMY SENSOR, 4R PID, WARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 36.00	D2
029-2124-000	Wall mounting bracket	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 57.00	D1
029-2124-200	Tripod mounting bracket	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 91.00	D1
029-2124-300	Tripod Kit (includes tripod and mounting bracket)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 724.00	D1
029-2129-000	ASSY,GAS OUTLET ADAPTER	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 4.00	D1
029-3059-400	CHARGER STATION,AREARAE,PACK OF 4	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 0.00	D1
029-3060-000	Four-unit external charger for AreaRAE Lithium-ion battery pack, US Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 759.00	D1
029-3060-100	Charging station for single Lithium-Ion battery pack, US Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 260.00	D1
029-3060-200	Four-unit external charger for AreaRAE Lithium-ion battery pack, UK Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 759.00	D1
029-3060-300	Charging station for single Lithium-Ion battery pack, UK Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 260.00	D1
029-3060-400	Four-unit external charger for AreaRAE Lithium-ion battery pack, EU Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 759.00	D1
029-3060-500	Charging station for single Lithium-Ion battery pack, EU Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 260.00	D1
029-3151-000	Rechargeable AreaRAE Li-ion battery pack	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 375.00	D2
029-3152-000	Alkaline AreaRAE battery adapter (holds 6 C batteries)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 127.00	D1
029-3153-000	Rechargeable AreaRAE Steel Li-ion battery pack	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 375.00	D2
029-3153-200	Rechargeable AreaRAE Steel Li-ion battery pack	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 375.00	D2
029-3153-300	Rechargeable AreaRAE Steel Li-ion battery pack	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 375.00	D2
029-3154-000	Alkaline AreaRAE Steel battery adapter (holds 6 C batteries)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 127.00	D1
029-5900-000	LANTERN MANTLE AS A CHECK SOURCE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 52.00	D1
081-0010-000	TOOL KIT, AREARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 52.00	D2
500-0066-000	Charger (120/240 V AC to 15 V DC) for AreaRAE, includes power cord with US style 110 V AC plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 68.00	D1
500-0066-000-4A	BATTERY CHARGER,AC/DC ADPT 15V,4AMP W/ AC CORD	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 187.00	D2
500-0066-100	Charger (120/240 V AC to 15 V DC) for AreaRAE, includes power cord with EU style 220 V AC plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 68.00	D1
500-0066-200	Charger (120/240 V AC to 15 V DC) for AreaRAE, includes power cord with UK style 220 V AC plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 68.00	D1
500-3075-000	Multi-lead (5) charging adapter, 15 V AC/DC, For AREARAE , US Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 204.00	D1
500-3075-100	Multi-lead (5) charging adapter, 15 V AC/DC, For AREARAE , EU Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 204.00	D1
500-3075-200	Multi-lead (5) charging adapter, 15 V AC/DC, For AREARAE , UK Plug	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 204.00	D1
550-7015-000	ANTENNA,433MHZ,N CONNECTION FOR AREARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 237.00	D1
550-7019-000	ANTENNA,W/ MAGNET MOUNT BASE,433MHZ,3.5DB,SMA MALE REVERSED	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 126.00	D1
029-1010-004	PCB ASSY,POWER-SUPPLY,PGM-5010	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 431.00	D2
029-1013-Z00	PCB ASSY,POWER-SUPPLY,AREARAE STEEL Z1	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 431.00	D2
029-2006-005	AreaRAE gas outlet adapter (pack of 5)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 81.00	D1
029-2008-002-FRU	LOCKING SCREWS FOR AREARAE PLASTIC HANDLE,PACK OF 2	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 30.00	D2
029-2009-005	AreaRAE inlet tube adapter (pack of 5)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 81.00	D1

21. End Of Life Products

Part Number	Description	Product Range	Last Order Date	EUR	PG
029-2011-025-FRU	RUBBER GASKET FOR BATTERY HOUSING,PACK OF 25	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 67.00	D2
029-2021-100-FRU	CASE O-RING/GASKET FOR AREARAE STEEL,PACK OF 25	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 498.00	D2
029-2029-004-FRU	RUBBER FEET FOR AREARAE STEEL,PACK OF 4	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 26.00	D2
029-2066-001-FRU	GASKET FOR BATTERY COVER,AREARAE STEEL,FRU PACK OF 25	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 318.00	D2
029-2104-100-FRU	MEMBRANE PANEL,AREARAE STEEL,FRU PACK OF 1	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 60.00	D2
029-2134-004-FRU	FRU,LOCK RETAINER,AREARAE STEEL,PACK OF 4	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 36.00	D2
029-2227-000-FRU	COVER ALARM MANTLE,AREARAE STEEL,FRU	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 91.00	D2
029-2232-000-FRU	FRU,COVER,BASE AND NUT ALARM MANTLE,AREARAE STEEL	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 112.00	D2
029-2904-000	ASSY,HOUSING, BOTTOM, AREARAE STEEL	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 510.00	D2
029-2905-000	ASSY,HOUSING, FRONT, AREARAE STEEL	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 646.00	D2
029-3011-100	PCB ASSY,DIGITAL PCB W/ EEPROM ADAPTER PCB,AREARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 510.00	D2
029-3012-000	PCB ASSY,ANALOG,PGM-5010	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 245.00	D2
029-3034-000	LCD ASSY. PGM-5010	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 64.00	D2
029-3083-000	CABEL ASSEMBLY,869MHZ,MODEM,EUROPE,PGM-5520	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 30.00	D2
029-3084-000	CABEL,MCX-JW1.5 110MM,SMAKY1.5	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 30.00	D2
029-3109-100	ASSY,AREARAE,PUMP ON GAS PLATE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 425.00	D2
029-3110-000	GAS PLATE ASSY FOR HF-HCL,AREARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 417.00	D2
029-7103-000	CONNECTOR,4.5",SEMI-RIGID,SMA TO N	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 142.00	D2
029-7106-100	GPS MODULE,CONFIGURED,AREARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 582.00	D2
029-7113-000	MODEM,869MHZ,500MW,RS232,MCX,M1 70 x 62 x 16 mm	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 1,788.00	D2
029-7123-000	MODEM,868MHZ,500mw,RS232,MCX,M1 70 x 62 x 16 mm	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 1,788.00	D2
047-0100-000	SENSOR MODULE,4CC,AREARAE-GAMMA	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 483.00	D2
003-3005-000	Automotive charging adapter (15 V)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 195.00	D1
029-2231-000	PLUG B,RUBBER,AR STEEL	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 17.00	D2
029-2901-000	HANDLE, AREARAE SPARE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 46.00	D2
029-3036-300	BUZZER ASSY,AREARAE(AT-4230-TF-LW135-R)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 46.00	D2
029-3078-000	METAL HANDLE CSA ASSY,AREARAE SS	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 78.00	D2
029-3086-000	MODEM CONFIG CABLE & QSG,AREARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 34.00	D2
029-3109-200	SERV PRT,GAS PLATE ASSY W/O PUMP,AREARAE	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 137.00	D2
029-7133-000	MODEM 869MHZ,100MW	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 1,788.00	D2
029-7030-000	AreaRAE Gamma Detector Upgrade – Factory upgrade of AreaRAE detector to replace TOX2 sensor with Gamma sensor. Includes complete calibration of unit.	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 3,088.00	D1
029-7007-000	GPS upgrade for AreaRAE detectors-includes GPS module & antenna installation (NOTE: ProRAE Guardian and ProRAE Remote require GPS module upgrade and maps of local area!)	AreaRAE Steel	End of 2021 or As Stock Lasts	€ 646.00	D1

Honeywell is able to provide gas detection solutions to meet the requirements of all applications and Industries. Contact us in the following ways:

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