

Manual Supplement

Manual Title: 975 Users
Part Number: 2507213
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This supplement contains information necessary to ensure the accuracy of the above manual.

Change #1, 46008

On pages 27 through 30, replace all the Specifications with the following General Specifications

Measured Parameters	Range	Display Resolution	Accuracy % of Reading
Temperature	-5 ° to 122 °F -20 ° to 50 °C	0.1 °F 0.1 °C	±0.9 °C / ±1.62 °F from 40 °C to 50 °C ±0.5 °C / ±1.00 °F from 5 °C to 40 °C ±1.1 °C / ±1.98 °F from -20 °C to 5 °C
Relative Humidity	10 to 90 % R.H. non-condensing	0.1 %	±3 % RH from 10 % RH to 90 % RH Includes 1 % hysteresis
Air Velocity	50 to 3000 fpm 0.25 to 15 m/sec	1 fpm 0.001 m/sec	±4 % or 4 fpm* ±4 % or .02 m/sec* whichever is greater * Accuracy specification only valid for velocity readings above 50 fpm or 0.25 m/sec.
CO ₂	0 to 5000 ppm	1 ppm	Warm up time 1 min (5 minutes for full specification) 2.75 % + 75 ppm
CO	0 – 500 ppm	1 ppm	±5 % or ±3 ppm, whichever is greater, @ 20 °C and 50 % RH Additional de-rating over Temperature: ±0.6 %/°C from calibration temperature ±0.6 %/°C < 20 °C Long term drift < 2 % per month. Maximum shift in arid or humid storage conditions*: ±0.6 % per day (Reference storage test conditions: 50 °C, 15 % RH and 30 °C, 95 % RH)
*After the CO calibration seal is removed and the Meter is stored for an extended period in arid or humid conditions, verify that the sensor is within specification by applying a known concentration of gas using the calibration gas kit.			

Calculated Parameters

Calculated Parameters	Range	Display Resolution	Accuracy
Dew Point Temperature	-44 to 50 °C -47 to 122 °F	0.1 °C 0.1 °F	±1 °C When Temp: -20 °C to 50 °C RH: 40 % to 90 % ± 2 °C When Temp: -20 °C to 50 °C RH: 20 % to 40 % ± 4 °C When RH: 10 % to 20 %
Wet Bulb Temperature	-16 to 50 °C 3 to 122 °F	0.1 °C 0.1 °F	±1.2 °C when : RH: 20 % to 90 % Temp: -20 °C to 50 °C ± 2.1 °C when : RH: 10 % to 20 %
Volume Flow Rate (in a duct)		1 cfm 0.01 M ³ /hr	N/A The volume flow calculation will be a simple average of the data points times the duct area
% outside air (Based on Temperature)	0 to 100 %	0.1 %	N/A
% Outside Air (Based on CO ₂)	0 to 100 %	0.1 %	N/A
Minimum, Maximum and Average on all measured parameters	Per measured parameter spec	Per measured parameter spec	Per measured parameter spec

Environmental Specifications**Operating and Storage Temperature:**

-20 to 50 °C (-4 to 122 °F)

Humidity:

10 to 90 % non-condensing

Altitude:

Up to 2000 m (6562 ft)

Shock and Vibration:

Per MIL-PRF-28800F: Class 2

Physical Specifications**Meter size:**

28.70 cm x 11.43 cm x 5.08 cm (11.3 in x 4.5 in x 2 in)

Meter weight:

0.544 kg (1.2 lb)

Hard-shell case size:

11.93 cm x 35.65 cm x 43.18 cm (4.7 in x 14 in x 17 in)

Velocity probe size:

28.70 cm, 99.06 cm extended x 2.54 cm (11.3 in, 39 in extended x 1 in)

Velocity probe weight:

198 g (7 oz)

Impact resistance:

1 m drop test (3.28 ft drop test)

Power supply:

Rechargeable Lithium battery or Universal AC power adapter with plug adapters for USA, Great Britain, Europe, and Australia

Backup power supply:

3 AA batteries used as backup power

Battery life:

Rechargeable Lithium battery - 11 hours (at room temperature)*

Backup AA batteries - 7 hours

**Note*

Lithium batteries can greatly extend the operating life of the meter if cared for properly. To ensure optimum capacity do not store for extended periods of time above 35 °C (95 °F).

Agency Approvals, Certifications and Standards Compliance

The Meter complies with the following standards and meets requirements for the following certifications:

EMC: EN61326-1. Class B

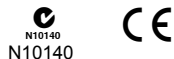
FCC Part 15 Class B

Industry Canada: ICES-003 Class B

UL 1642

AS/NSZ CISPR 11 Class B

Safety: EN61010:2001



Change #2

On page 20, under **Calibration**, following the *Note*, add:

Gas used for calibration is as follows:

	Nominal ppm	Min ppm	Max ppm
CO	200	150	250
CO2	5000	4500	5000

Change #3

On page 20, replace the third paragraph with:

Gas Canister and Regulator can be purchased from any Calibration Gas Supplier allowing the users to calibrate the CO and CO₂ sensors.

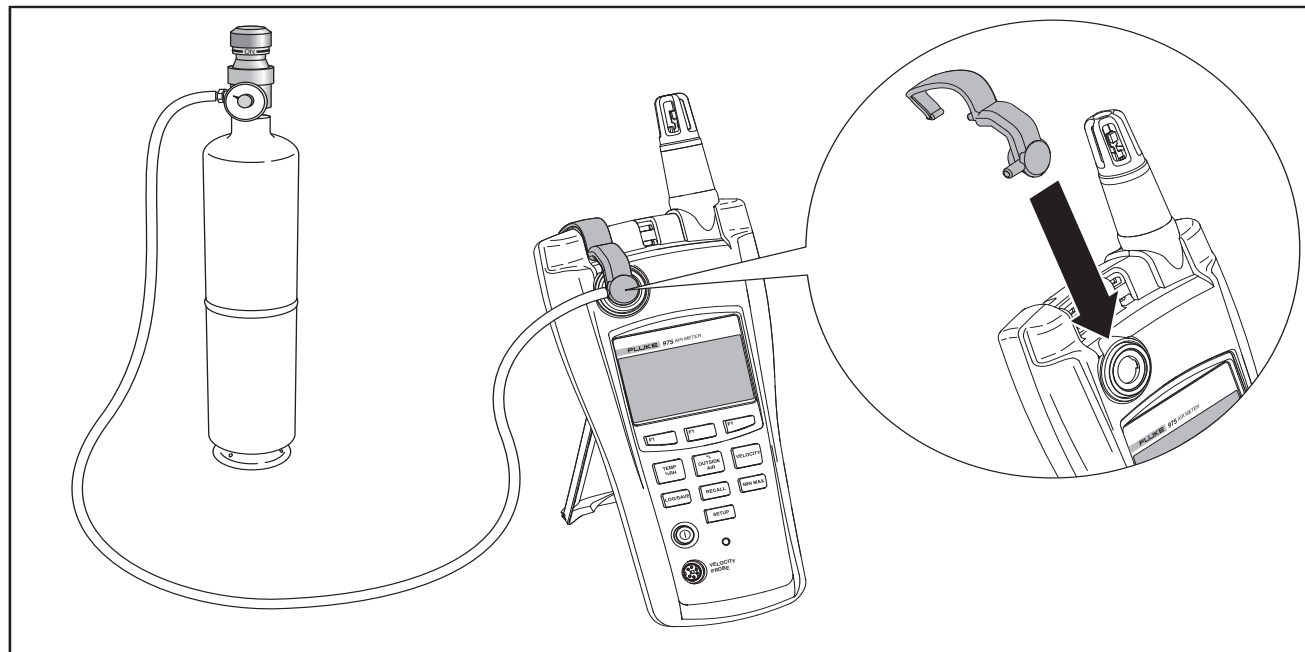
Add the following after the Note:

Regulator requirement: 0.5 liters/minute flow rate

On page 32, replace item 8 and add item 16 in Table 5.

⑧	2770767	Calibration-flow regulator value
⑩⑥	2694684	Calibration Cap

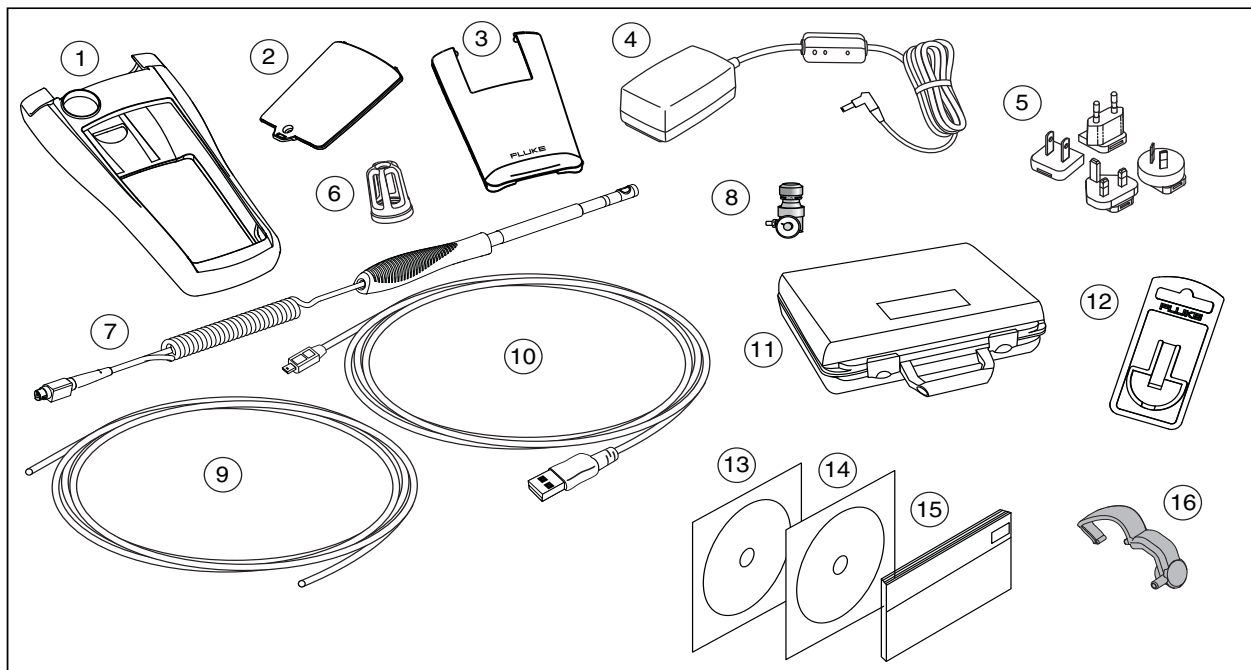
On page 23, replace Figure 4 with:



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Figure 4. Calibration Set up

On page 31, replace Figure 6 with:



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Figure 6. Replaceable Part and Accessories