PA-838-D

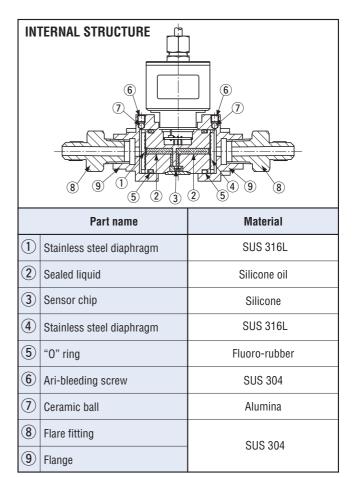
New

PRESSURE TRANSDUCERS WITH AMP.



FEATURES

- High corrosion resistance and drip-proof construction Pressure port attachment made of SUS 316L
 Proven IP-65 grade gauge body (IP-65 in accordance with IEC)
- For differential pressure
- Two types of joint are provided Rc 1/4, 1/4 Flare fitting (7/16 - 20 UNF)



■ MODEL NUMBER DESIGNATION

102:0~100 kPa

Pressure reference Rated pressure range

D: Differential

| Pressure reference | Rated pressure range | Pressure range range | Pressure range range range range | Pressure range r

■ LIST OF MODEL NUMBERS

Pressure reference	Differential		
Fitting Rated pressure range [kPa]	0 ~ 10	0 ~ 50	0 ~ 100
Rc 1/4	PA-838-101D	PA-838-501D	PA-838-102D
1/4 Flare fitting (7/16 - 20 UNF)	PA-838-101D-F2	PA-838-501D-F2	PA-838-102D-F2

^{*} Verify the above model numbers when placing orders.

PA-838-D PRESSURE TRANSDUCERS WITH AMP.

■ STANDARD SPECIFICATIONS

ullet Unless otherwise specified, the specs are defined at an ambient temperature of 25 \pm 5 °C, excitation voltage of 24 V DC, load resistance of 250 Ω and line pressure of 0 MPa.

	Item Model number		PA-838		
	iteiii / iv	iouei iiuiiibei	101D	501D	102D
	Pressure reference		Differential ₩1		
	Rated pressure range	kPa	10	50	100
	Maximum pressure	¾ 2 kPa	200	300	500
	Line pressure	MPa	2		
	Operating temp. range	°C	− 20 ~ 70		
General specifications	Compensated temp. range °C		0 ~ 50		
	Operating humidity	%RH	35 ~ 85 (No condensation)		
	Storage temp.	°C	– 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)		
	Pressure medium		Corrosive gases/liquids compatible with SUS304		
Gen	Insulation resistance	$M\Omega$ minimum	100 (500 V DC)		
	Dielectric strength		500 V AC, 60 s (Leakage current 1 mA maximum)		
	Sealed liquid Silicone oil				
	Pressure port		Rc 1/4, 1/4 Flare fitting (7/16 - 20 UNF)		
	Net weight	g	Rc 1/4 : Approx. 500, 1/4 Flare fitting : Approx. 590		
	Drip-proof structure		IP-65		
Power	Supply voltage	V DC	24 ± 10 % (Including ripple voltage)		e)
	Output current	mA DC	4 ~ 20		
	Zero current mA (at 25 °C)		4 ± 0.2		
	Span current mA (at 25 °C)		16 ± 0.2		
Ħ	Load resistance	Ω	0 ~ 500		
Analog output	Linearity/Hysteresis	%F.S.	± 0.5		
	Thermal error	ZERO %F.S./°C	± 0.10	± C	0.05
		SPAN %F.S./°C	± 0.10	± C	0.05
	Response ms maximum		Approx. 2		
	Gravitational effect (From horizontal position to vertical position) %F.S.		±5	± 3	±1

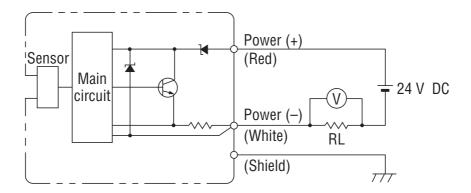
^{\$1}: Pressure range Hi side port — Lo side port : 0 ~ rated pressure

 $[\]mbox{\em $\#$}2$: Please adjust load resistance at 500 Ω when exceeding rated pressure.

■ ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions (At 25 \pm 5 °C)	Permissible change
Vibration	10 ~ 500 Hz, 1.5 mm maximum/98.1 m/s², 3 directions for 2 hours each 490 m/s², 3 directions for 3 times each Zero current, Span cur	
Shock		
Pressure cycling	0∼Rated pressure/Rated pressure range, 10 ⁶ cycles	± 1 %F.S. maximum each
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	

■ RECOMMENDED EXTERNAL SCHEMATICS

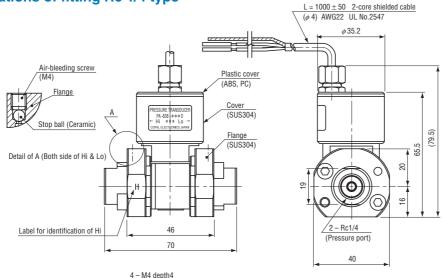


PA-838-D PRESSURE TRANSDUCERS WITH AMP.

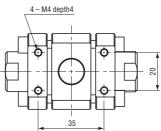
OUTLINE DIMENSIONS

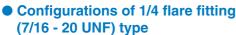
Unless otherwise specified, tolerance : ± 0.5 (Unit: mm)

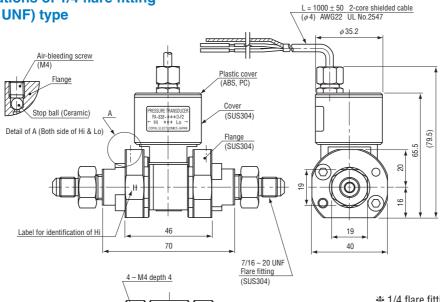




Wire color	Connection
Red	Power +
White	Analog output
Shield	_







★ 1/4 flare fitting is packed separately.