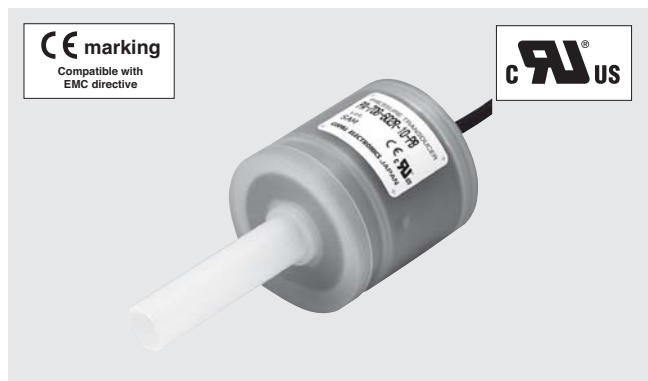


PRESSURE TRANSDUCERS WITH AMP.

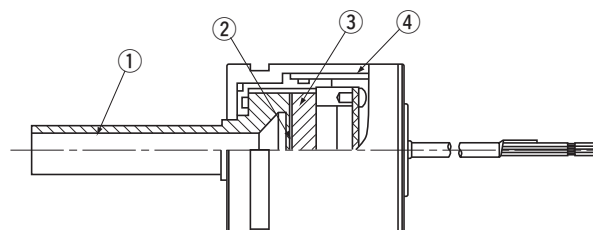
PA-708



FEATURES

- Applicable for ultra high purity and aggressive fluids
- Compound pressure measures both positive and negative pressure
- PFA pressure port

INTERNAL STRUCTURE



Part name		Material
①	Fluorocarbon polymer port	PFA
②	Fluorocarbon polymer diaphragm	
③	Ceramic pressure sensor	Alumina
④	Housing	PP

MODEL NUMBER DESIGNATION

PA-708 - 102 R - 10 - P B										
Series name								Fitting B : PFA		
Rated pressure range								Fitting material P : Port type		
102 : -100 ~ 100 kPa										
302 : -100 ~ 300 kPa										
602 : -100 ~ 600 kPa										
Pressure reference								Thermal error		
R : Compound pressure (Negative pressure ~ Positive pressure)								10 : ± 0.1 % F.S./°C		

LIST OF MODEL NUMBERS

Thermal error	Pressure reference		Gauge
	kPa Rated pressure range	Fitting material	PFA
± 0.1 % F.S./°C	-100 ~ 100		PA-708-102R-10-PB
	-100 ~ 300		PA-708-302R-10-PB
	-100 ~ 600		PA-708-602R-10-PB

※ Verify the above model numbers when placing orders.

PA-708

PRESSURE TRANSDUCERS WITH AMP.

STANDARD SPECIFICATIONS

● Unless otherwise specified, the specs are defined at an ambient temperature of 25 ± 5 °C, excitation voltage of 24 V DC and load resistance of 250 Ω .

Item		Model number	PA-708		
			102R	302R	602R
General specifications	Pressure reference		Gauge (Compound)		
	Rated pressure range	kPa	-100 ~ 100	-100 ~ 300	-100 ~ 600
	Maximum pressure	kPa	200	600	1200
	Break-down pressure	kPa	400	1200	1800
	Operating temp. range	°C	-20 ~ 80		
	Medium temp. range	°C	10 ~ 80		
	Ambient temp. range	°C	10 ~ 50		
	Operating humidity	%RH	35 ~ 85 (No condensation)		
	Storage temp.	°C	-20 ~ 80 (Atmospheric pressure, humidity 65 %RH maximum)		
	Pressure medium		Corrosive gases/liquids compatible with Fluorocarbon polymer		
	Insulation resistance	M Ω minimum	100 (500 V DC)		
	Dielectric strength		500 V AC, 60 s (Leakage current 1 mA maximum)		
	Pressure port		1/2" $\times$ 3/8"		
	Net weight	g	Approx. 160		
Power	Supply voltage	V DC	24 $\pm$ 10 %		
	Ripple content	maximum	10 % (P-P)		
Analog output	Output current	mA	4 ~ 20		
	Zero current	mA	4 $\pm$ 0.2 (at 25 °C)		
	Span current	mA	16 $\pm$ 0.2 (at 25 °C)		
	Load resistance	Ω	0 ~ 500		
	Linearity/Hysteresis	%F.S.	$\pm$ 1.0		$\pm$ 1.5
	Thermal error 0 ~ 50 °C (Reference temp.: 25 °C)	ZERO %F.S./°C	$\pm$ 0.1		
		SPAN %F.S./°C	$\pm$ 0.1		
	Response	ms	Approx. 2		

ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions (At 25 $\pm$ 5 °C)	Permissible change
Vibration	10 ~ 55 Hz, 1.5 mm maximum/98.1 m/s ² , 3 directions for 2 hours each	Zero current, Span current: $\pm$ 2 %F.S. maximum each
Shock	490 m/s ² , 3 directions for 3 times each	
Pressure cycling	0 ~ Rated pressure, 10 ⁶ cycles	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	
EMC	EMI : EN55011: 2007, A2 : 2007 Group 1, class B EMS : EN61326-1 : 2006/EN61326-2-3 : 2006 Table 2	Analog output : $\pm$ 5 %F.S. maximum during test : $\pm$ 5 %F.S.

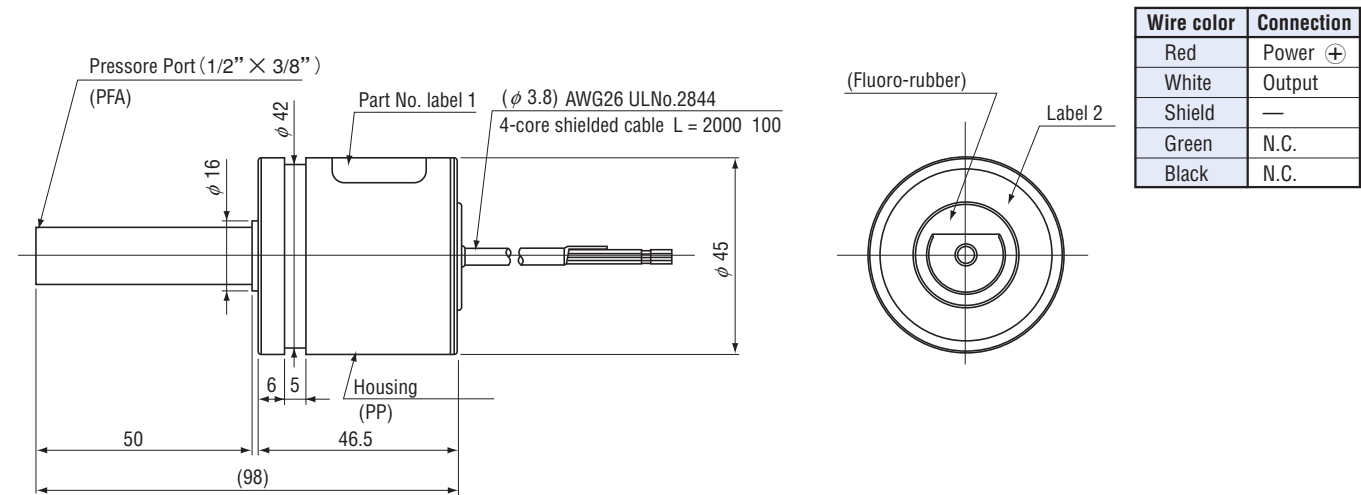
PA-708

PRESSURE TRANSDUCERS WITH AMP.

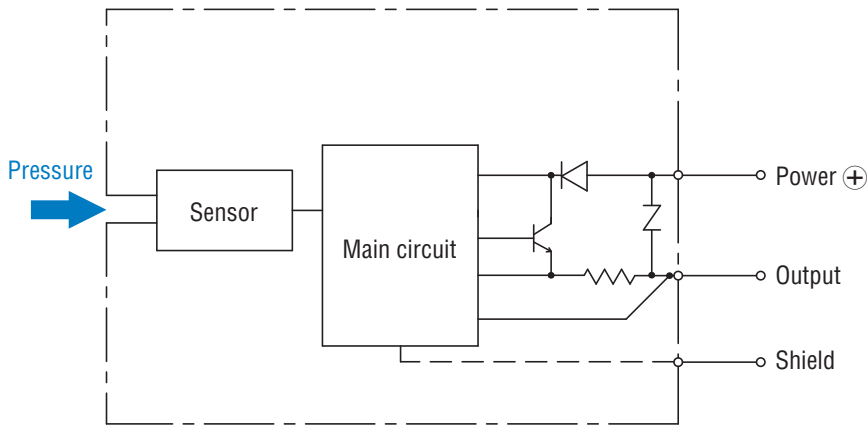
OUTLINE DIMENSIONS

PA-708

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



INTERNAL ELECTRICAL SCHEMATICS



RECOMMENDED EXTERNAL SCHEMATICS

