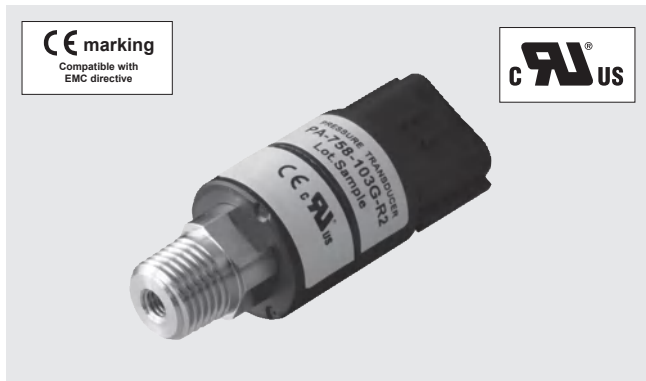


PRESSURE TRANSDUCERS WITH AMP.

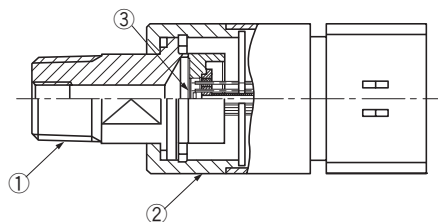
PA-758



FEATURES

- High corrosion resistance and drip-proof construction
Pressure port attachment made of SUS 316L
Proven IP65 grade gauge body (IP-65 in accordance with IEC)
- Cable connector connection
- Built-in temperature compensation function (0 ~ 50°C)
- Absolute pressure type and compound pressure type which can control negative to positive pressure with only a single pressure gauge are all in line
- Current output mode

INTERNAL STRUCTURE PA-758 (R 1/4)



Part name		Material
①	Fitting	SUS 304
②	Housing	PPS
③	Stainless steel diaphragm	SUS 316L

MODEL NUMBER DESIGNATION

Series name		PA-758	-	102	R	-	R2	-	1	Cable	
Pressure reference										Blank : 1.5m cable 1 : Not attached	
Rated pressure range										Fitting	
G : Gauge										R1 : R 1/8 with M 5 female screw R2 : R 1/4 with M 5 female screw	
102 : 0 ~ 100 kPa											
352 : 0 ~ 350 kPa											
103 : 0 ~ 1 MPa											
353 : 0 ~ 3.5 MPa											
V : Gauge(Vacuum)											
102 : 0 ~ - 100 kPa											
R : Compound											
102 : - 100 ~ 100 kPa											
302 : - 100 ~ 300 kPa											
A : Absolute											
102 : 0 ~ 100 kPa abs											

※ Please refer to the LIST OF MODEL NUMBERS when placing orders.

Fitting	Pressure reference	Gauge							Absolute
	Cable Rated pressure range kPa	0 ~ 100	0 ~ 350	0 ~ 1000	0 ~ 3500	0 ~ - 100	- 100 ~ 100	- 100 ~ 300	0 ~ 100 (abs)
R1	Attached	PA-758- ③ 102G-R1	PA-758- ③ 352G-R1	PA-758- 103G-R1	PA-758- 353G-R1	PA-758- ③ 102V-R1	PA-758- 102R-R1	PA-758- 302R-R1	PA-758- 102A-R1
	Not attached	PA-758- ③ 102G-R1-1	PA-758- ③ 352G-R1-1	PA-758- 103G-R1-1	PA-758- 353G-R1-1	PA-758- ③ 102V-R1-1	PA-758- 102R-R1-1	PA-758- 302R-R1-1	PA-758- 102A-R1-1
R2	Attached	PA-758- ③ 102G-R2	PA-758- ③ 352G-R2	PA-758- 103G-R2	PA-758- 353G-R2	PA-758- ③ 102V-R2	PA-758- 102R-R2	PA-758- 302R-R2	PA-758- 102A-R2
	Not attached	PA-758- ③ 102G-R2-1	PA-758- ③ 352G-R2-1	PA-758- 103G-R2-1	PA-758- 353G-R2-1	PA-758- ③ 102V-R2-1	PA-758- 102R-R2-1	PA-758- 302R-R2-1	PA-758- 102A-R2-1

■ STANDARD SPECIFICATIONS

Item		Model number	PA-758							
			102G	352G	103G	353G	102V	102R	302R	102A
General specifications	Pressure reference		Gauge							Absolute
	Rated pressure range	kPa	100	350	1000	3500	- 100	- 100 ~ 100	- 100 ~ 300	100 (abs)
	Maximum pressure	kPa	200	700	2000	5000	200	200	600	200 (abs)
	Break-down pressure	kPa	300	1050	3000	7000	300	300	900	300 (abs)
	Operating temp. range	°C	- 20 ~ 70							
	Compensated temp. range	°C	0 ~ 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 SUS316L and SUS304							
	Insulation resistance	MΩ minimum	100 (500 VDC)							
	Dielectric strength		500 VAC, 60 s (Leakage current 1 mA maximum)							
	Sealed liquid		Silicone oil							
	Pressure port		R 1/8、R 1/4							
	Net weight	g	R2 : Approx. 50							
	Drip-proof structure		IP65							
Power	Supply voltage	VDC	24 ± 10 % (Including ripple percentage)							

PA-758

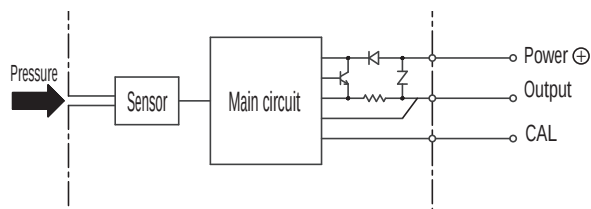
PRESSURE TRANSDUCERS WITH AMP.

Item		Model number	PA-758							
			102G	352G	103G	353G	102V	102R	302R	102A
Analog output	Output current		mA 4 ~ 20 mA							
	Zero current (at 25 °C)		mA 4 ± 0.2				12 ± 0.2	8 ± 0.2	4 ± 0.2	
	Span current (at 25 °C)		mA 16 ± 0.2							
	Load resistance		0 ~ 500 Ω							
	Linearity/Hysteresis		%F.S. ± 0.5							
	Thermal error	ZERO %F.S./°C	± 0.05							
		SPAN %F.S./°C	± 0.05							
	Response		ms Approx. 2							
	Resolving power		Approx. 0.016 mA (Approx. 0.1%F.S.)							
Gravitational effect (From horizontal position to vertical position)		%F.S. ± 0.3	± 0.1	± 0.05		± 0.3		± 0.1	± 0.3	

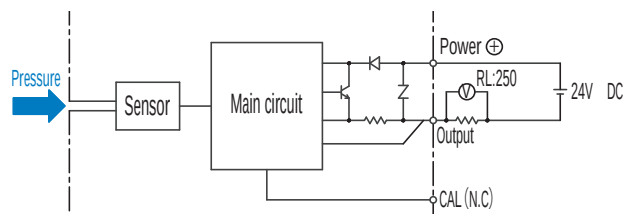
ENVIRONMENTAL CHARACTERISTICS

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

INTERNAL ELECTRICAL SCHEMATICS



RECOMMENDED EXTERNAL SCHEMATICS



※ Do not wire the CAL connection.
It may cause malfunction when voltage is applied.
**...Calibration

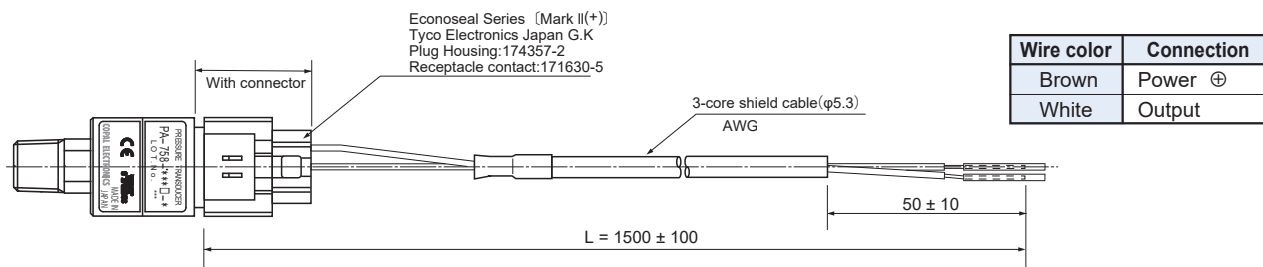
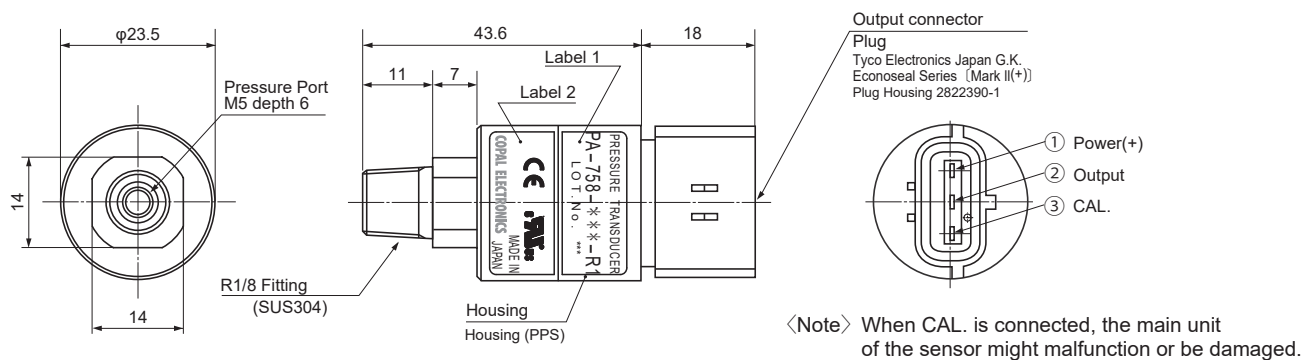
PA-758

PRESSURE TRANSDUCERS WITH AMP.

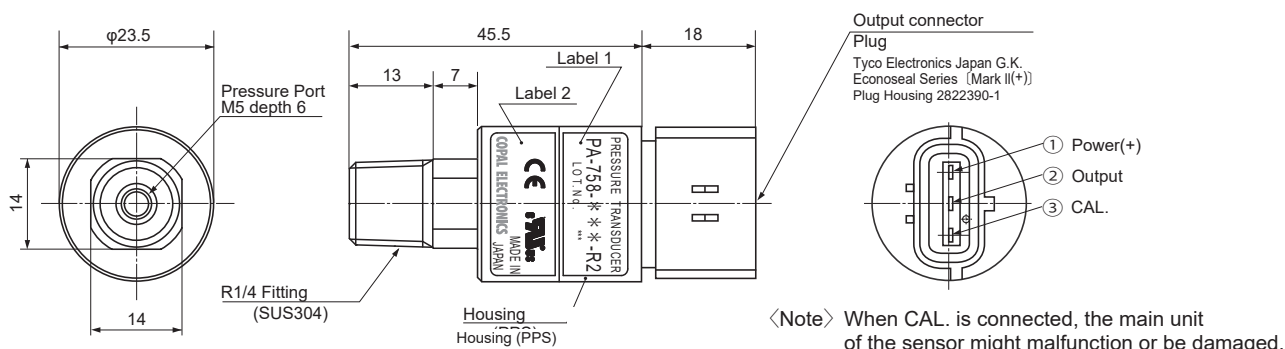
OUTLINE DIMENSIONS

Configurations of joint R1 (R1/8) type

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



Configurations of joint R2 (R1/4) type



CUSTOMIZATION

- We also offer customized solutions. Please contact your local sales office for details.

Example of customizations
Customized pressure range 402A(0~400kPa abs)*for sterilizer use
5V operation
Customized joint (7/16-20UNF Male/Female screw etc)