

COPAL ELECTRONICS

All for dreams

New Pressure Sensors with Amp.



Pressure Transducer with AMP.

PA-750/758 series

NIDEC COPAL ELECTRONICS CORP.



Pressure Transducer with AMP. PA-750 / 758



~Voltage output type~

PA-750

~Current output type~

PA-758



FEATURES

- Double diaphragm structure (SUS316L diaphragm, oil sealing type)
- Compact & light weight (ϕ 23.5mm, 50g)
- Cable connector connection
- High accuracy by digital compensation
- IP65
- CE (To be obtained in Sep.), UL (To be obtained in Oct.)



MODEL NUMBER DESIGNATION

PA - 758 - 103 G - R2 - 1

① ② ③ ④ ⑤

① Series name	PA-750	Voltage output (1 - 5V)	
	PA-758	Current output (4 - 20mA)	
② Rated pressure range	102	0.10MPa	
	302	0.30MPa	
	103	1.00MPa	
	353	3.50MPa	
③ Pressure reference/ Analog output range(*1)	G	Gauge (Positive) / 0 ~ Rated pressure	
	R	Gauge (Compound) / -0.1 ~ Rated pressure	
	A	Absolute 0 ~ Rated pressure (abs)	
④ Fitting(*2)	R1	R1/8 (PT1/8)	
	R2	R1/4 (PT1/4)	
⑤ Cable	Blank	1.5m connector cable	
	1	Not attached	

*1) 501G, 102V, 102G, 352G is available in made-to-order basis.

*2) G1/8, G1/4, VC type is manufactured upon receipt order basis.

LIST OF MODEL NUMBERS

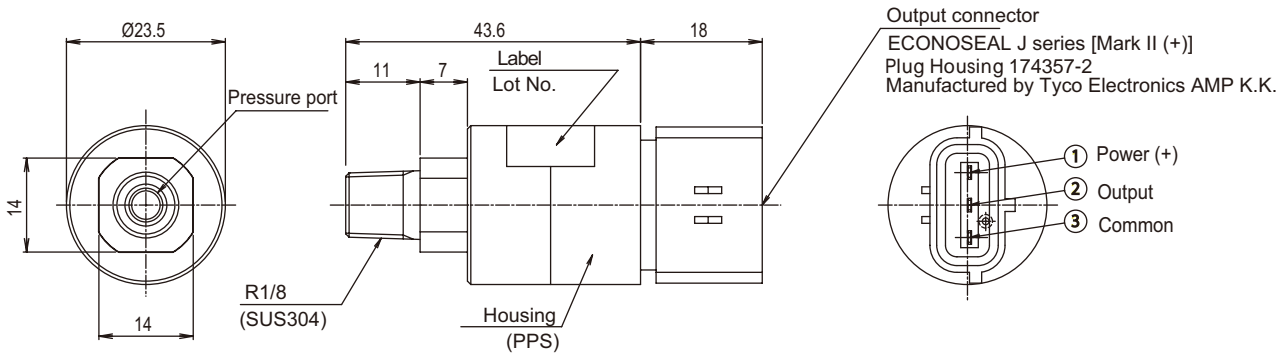
Output	Pressure reference Fitting	Gauge (MPa)				Absolute (MPa)
		-0.1 ~ 0.1	-0.1 ~ 0.3	0 ~ 1.0	0 ~ 3.5	0 ~ 0.1 (abs)
Voltage output 1 ~ 5V	R1 / 8	PA-750-102R-R1-*	PA-750-302R-R1-*	PA-750-103G-R1-*	PA-750-353G-R1-*	PA-750-102A-R1-*
	R1 / 4	PA-750-102R-R2-*	PA-750-302R-R2-*	PA-750-103G-R2-*	PA-750-353G-R2-*	PA-750-102A-R2-*
Current output 4 ~ 20 mA	R1 / 8	PA-758-102R-R1-*	PA-758-302R-R1-*	PA-758-103G-R1-*	PA-758-353G-R1-*	PA-758-102A-R1-*
	R1 / 4	PA-758-102R-R2-*	PA-758-302R-R2-*	PA-758-103G-R2-*	PA-758-353G-R2-*	PA-758-102A-R2-*

STANDARD SPECIFICATIONS

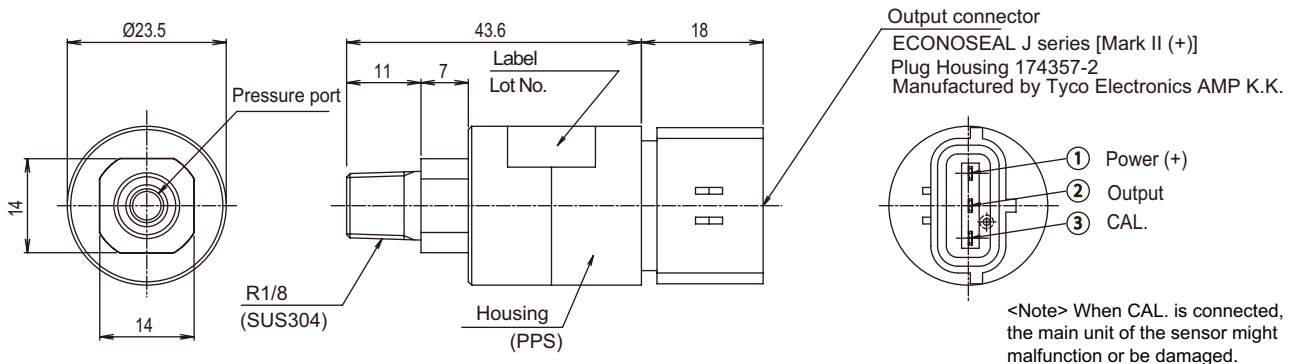
Item		PA-750 / 758				
General Specifications	Pressure reference	Gauge				Absolute
	Model number	102R	302R	103G	353G	102A
	Rated pressure (MPa)	-0.1~0.1	-0.1~0.3	0 ~ 1.0	0 ~ 3.5	0~0.1 (abs)
	Maximum pressure (MPa)	0.2	0.6	2.0	0 ~ 7.0	0.2 (abs)
	Break-down pressure (MPa)	0.3	0.9	3.0	0 ~ 7.0	0.3 (abs)
	Operating temp. range	-20~80°C (PA-750), -20~70°C (PA-758)				
	Compensated temp. range	0 ~ 50°C				
	Operating humidity	35~85%RH (No condensation)				
	Storage temp.	-20~80°C (Atmospheric pressure, humidity 65%RH maximum)				
	Pressure medium	Corrosive gases / liquids compatible with SUS304, SUS316L				
	Insulation resistance	100Mohm minimum (500VDC)				
	Dielectric strength	500V AC 60S (Leakage current 1mA maximum)				
	Sealed liquid	Silicone oil				
	Protection grade	IP-65				
	Weight (net)	Approx. 50g				
Power	Supply voltage	10.8~30VDC (PA-750), 24VDC±10% (PA-758) *Including ripple voltage				
	Consumption current	10mA maximum (PA-750), 4~20mA maximum (PA-758)				
Output	Zero voltage / current	1±0.04V / 4±0.2mA				
	Span voltage / current	4±0.04V / 16mA±0.2mA				
	Linearity / hysteresis	±0.3%FS (PA-750), ±0.5%FS (PA-750)				
	Thermal error	ztc	±0.05%FS / °C			
stc		±0.05%FS / °C				

OUTLINE DIMENSIONS

PA-750



PA-758



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