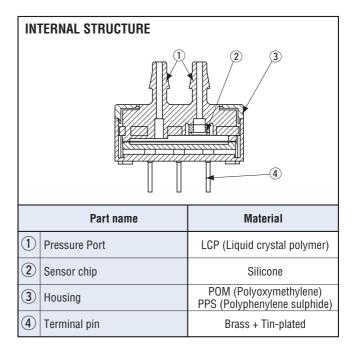
PRESSURE TRANSDUCERS WITH AMP.

PA-100



■ FEATURES

- Covers low pressure range
- Buit-in a compact amplifier circuit
- Measures differential pressure



■ MODEL NUMBER DESIGNATION

PA-100-100D-S

Series name Rated pressure range

100D-S: 0 ~ 1 kPa {102 mmH₂0} 200D-S: 0 ~ 2 kPa {204 mmH₂0} 500D-S: 0 ~ 5 kPa {510 mmH₂0} 100D-W: -1 ~ 1 kPa ½ 102 mmH₂0} 200D-W: -2 ~ 2 kPa ½ 204 mmH₂0} 500D-W: -5 ~ 5 kPa ½ 510 mmH₂0}

■ LIST OF MODEL NUMBERS

Pressure reference	Differential					
Rated pressure range [kPa]	0 ~ 1	0 ~ 2	0 ~ 5	-1~1	− 2 ~ 2	- 5 ~ 5
Model number	PA-100-100D-S	PA-100-200D-S	PA-100-500D-S	PA-100-100D-W	PA-100-200D-W	PA-100-500D-W

* Verify the above model numbers when placing orders.

STANDARD SPECIFICATIONS

• Unless otherwise specified, the specs are defined at an ambient temperature of 25±5 °C and excitation voltage of 5 V DC.

Item Model number -		PA-100							
	item Model	number	100D-S	200D-S	500D-S	100D-W	200D-W	500D-W	
	Pressure reference			Differential					
	Rated pressure range	kPa	1	2	5	±1	± 2	± 5	
	Maximum pressure	kPa	5	10	25	± 5	± 10	± 25	
	Break-down pressure	kPa	50						
S	Line pressure	kPa	50						
ation	Operating temp. range	− 20 ~ 70							
eific	Operating temp. range °C Compensated temp. range °C Operating humidity %RH Storage temp. °C -20 ~ 80 (Atmosp				0 ~	0 ~ 50			
ods Je	Operating humidity	35 ~ 85 (No condensation)							
enera	Storage temp.	°C	°C – 20 ~ 80 (Atmospheric pressure, humidity 65 %RH maximum)						
Ğ	Pressure medium	Non-corrosive gases							
	Insulation resistance	100 (50 V DC)							
	Dielectric strength		50 V AC, 60 s (Leakage current 1 mA maximum)						
	Pressure port	mm	φ 2.5						
	Net weight	g	Approx. 8						
ver	Supply voltage V DC Consumption current maximum		5 ± 10 %						
Pov			5 mA						
	Output voltage V		0.5 ~ 4.5						
	Zero voltage #3	V	0.5 ± 0.08			2.5 ± 0.08			
	Span voltage #3	V	4.0 ± 0.08 2.0 ± 0.08			2.0 ± 0.08			
Ħ	Output current	mA maximum					m)		
Analog output	Linearity/Hysteresis %F.S. ± 0.5								
nalog	Thermal error	ZERO %F.S.	± 5	± 3	± 2	± 5	± 3	± 2	
Ā	0 ~ 50 °C (Reference temp.: 25 °C) SPAN %F.S. ± 2				2				
% 2	Response ms 5			5					
	Gravitational effect (From vertical position to horizontal pos	%F.S. ition) max.	- 2	-1	- 0.4	- 2	-1	- 0.4	

^{*1:} PA-100- D-S pressure range Pressure A port – B port = 0 ~ Rated pressure range PA-100- D-W pressure range Pressure A port – B port = – Rated pressure range ~ Rated pressure range 2: Defined at 5 V of supply voltage.

^{*3:} The zero and span voltages vary in proportion to the supply voltage.

PA-100 PRESSURE TRANSDUCERS WITH AMP.

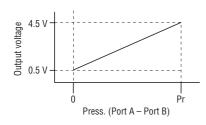
■ ENVIRONMENTAL CHARACTERISTICS

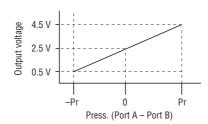
Test item	Test conditions (At 25 \pm 5 °C)	Permissible change		
Vibration	10 ~ 500 Hz, 1.5 mm maximum/49 m/s², 3 directions for 2 hours each	Zero voltage/Span voltage: ± 2 %F.S. (100D/200D) maximum and ± 1 %F.S. (500D) each		
Shock	490 m/s², 3 directions for 3 times each			
Pressure cycling	0 ~ Rated pressure, 10 ⁶ cycles			
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.			

■ OUTPUT VOLTAGE VS PRESSURE

PA-100-□□□D-S type



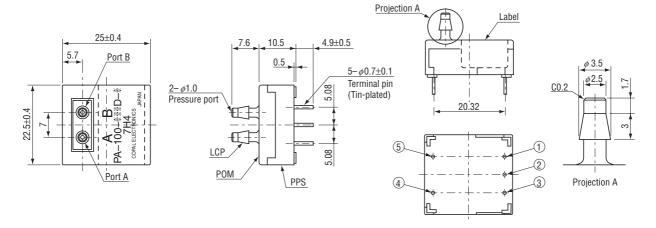




Pin	Connection
1	Power 🛨
2	Output
3	Common
4	N.C.
(5)	N.C.

OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : \pm 0.2 (Unit: mm)



INTERNAL ELECTRICAL SCHEMATICS

