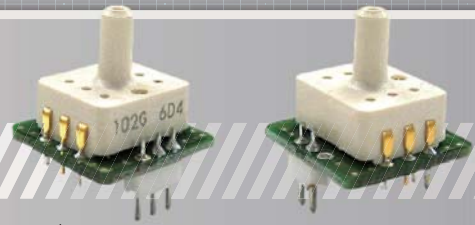


High precision Pressure transducer

PA-204 SERIES



Features

- Small size, light weight
- Highly precise by digital temperature compensation
- Non-corrosive gas use
- Possibly mounted on a board with DIP shape interface
- Pressure range 5~100kPa

Applications

- Medical equipment (C-PAP, Artificial dialysis device, Mind stomach device, etc)
- Industrial equipment (Dispenser, Regulator, etc)
- Metering equipment (Gas analyzer, etc)

MODEL NUMBER DESIGNATION

Series name

PA - 204 - 500G

Pressure reference

G : Gauge

Rated pressure range

500 G : 0~5 kPa 501 G : 0~50 kPa
101 G : 0~10 kPa 102 G : 0~100 kPa

STANDARD SPECIFICATIONS

Item	Specification			
Pressure range	500G	101G	501G	102G
Pressure reference	Gauge (Positive)			
Rated pressure range	0~5kPa	0~10kPa	0~50kPa	0~100kPa
Maximum pressure	25kPa	50kPa	100kPa	200kPa
Break-down pressure	50kPa	100kPa	250kPa	500kPa
Operating temp. range	-20 ~80 °C			
Compensated temp. range	0~50 °C (The sensor unit)			
Operating humidity	35 ~85% RH (No condensation)			
Storage temp.	-20 ~80 °C (Atmospheric pressure, humidity 65%RH max.)			
Pressure medium	Gases (No corrosive)			
Insulation resistance	100MΩ minimum (500V DC)			
Dielectric strength	500V AC 60 s (Leakage current 1 mA maximum)			
Pressure port	φ3.2			
Supply voltage	5V ±0.5V			
Consumption current	3mA maximum			
Dimensions、Net weight	19 × 15 × 15mm, Approx.1.8g			

※ Unless otherwise particularized, all specifications are specified under the condition of ambient temperature $T_a=25\pm 5^{\circ}\text{C}$, excitation voltage $V_{opr}=5\text{V DC}$, and input pressure $P_{in}=P_r$ (Symbol P_r represents rated pressure) .

ANALOG OUTPUT ※1

Item	Specification			
Pressure range	500G	101G	501G	102G
Output voltage	0.5~4.5V ※2			
Output limit	16.5mV ~95% V_{opr}			
Zero voltage	0.5 ±0.1V	0.5 ±0.04V	0.5 ±0.04V	0.5 ±0.04V
Span voltage	4.0 ±0.04V			
Output current	1mA maximum (Load resistance 5kΩ minimum)			
Linearity/Hysteresis	±0.5%F.S.			
Thermal error	Zero	±0.1%F.S./°C	±0.05%F.S./°C	±0.03%F.S./°C
	Span	±0.1%F.S./°C	±0.05%F.S./°C	±0.03%F.S./°C
Response time	Approx. 2ms			
Gravitational(From horizontal position to vertical position)	±0.2%F.S.	±0.1%F.S.	±0.05% F.S.	±0.05%F.S.

※ 1 Output voltage is proportional to the operating voltage. (ratiometric output)

※ 2 The resolving power of the analog output is 10 Bits(about 0.004V/0.1%F.S).

●OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.2 (Unit: mm)

