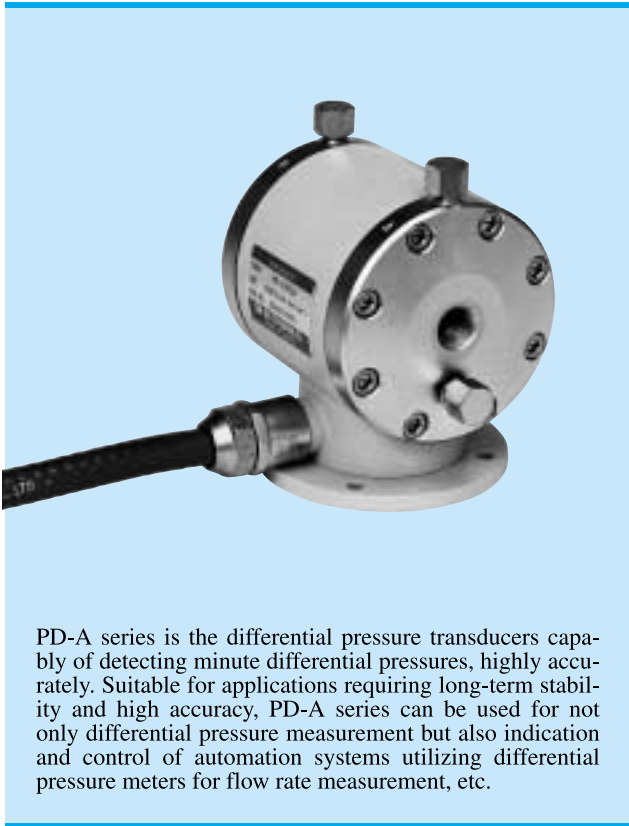


# PD-A

## Differential Pressure Transducers

● Usable at Max. Line Pressure of 2.94 MPa ● 10 to 200 kPa



PD-A series is the differential pressure transducers capable of detecting minute differential pressures, highly accurately. Suitable for applications requiring long-term stability and high accuracy, PD-A series can be used for not only differential pressure measurement but also indication and control of automation systems utilizing differential pressure meters for flow rate measurement, etc.

### Features

- Wide line pressure margin
- Highly accurate

### Specifications

#### Performance

**Rated Capacity:** See table below.  
**Nonlinearity:** Within  $\pm 0.3\%$  RO  
**Hysteresis:** Within  $\pm 0.2\%$  RO  
**Rated Output:** 1.5 mV/V (3000  $\mu\text{m/m}$ )  $\pm 1\%$

#### Environmental Characteristics

**Safe Temperature Range:**  $-10$  to  $70^\circ\text{C}$   
**Compensated Temperature Range:** 0 to  $60^\circ\text{C}$

**Temperature Effect on Zero Balance:**  
 Within  $\pm 0.05\%$  RO/ $^\circ\text{C}$  (PD-100GA)  
 Within  $\pm 0.01\%$  (PD-200GA to 2KA)

#### Temperature Effect on Output:

Within  $\pm 0.5\%$ / $^\circ\text{C}$  (PD-100GA)  
 Within  $\pm 0.03\%$ / $^\circ\text{C}$  (PD-200GA to 2KA)

#### Electrical Characteristics

**Safe Excitation Voltage:** 15 VAC or DC  
**Recommended Excitation Voltage:** 1 to 10 VAC or DC  
**Input Resistance:**  $350 \Omega \pm 1\%$   
**Output Resistance:**  $350 \Omega \pm 1\%$   
**Cable:** 4-conductor (0.3  $\text{mm}^2$ ) chloroprene shielded cable, 7.6 mm diameter 5 m long, terminated with NDIS connector plug (Shield wire is connected to mainframe.)

#### Mechanical Properties

**Safe Overload Rating:** (Differential Pressure)  
 200% (PD-100 & 200GA)  
 150% (PD-500GA & 1KA)  
 125% (PD-2KA)  
**Maximum Line Pressure:** 2.94 MPa (30  $\text{kgf/cm}^2$ )  
**Natural Frequency:** See table below.  
**Weight:** Approx. 6 kg

To use for gases, contact us.

Model	Rated Capacity (Ref. Value)	Natural Frequency (Approx.)
PD-100GA	10 kPa (102.0 $\text{gf/cm}^2$ )	60 Hz
PD-200GA	20 kPa (203.9 $\text{gf/cm}^2$ )	110 Hz
PD-500GA	50 kPa (509.9 $\text{gf/cm}^2$ )	230 Hz
PD-1KA	100 kPa (1.020 $\text{kgf/cm}^2$ )	400 Hz
PD-2KA	200 kPa (2.039 $\text{kgf/cm}^2$ )	700 Hz

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### Dimensions

