

## Differential Pressure Transducer



\*TEDS-installed models are available. Inquiries are welcome.

### Wide line pressure margin and highly accurate

PD-A series pressure transducers allow slight differential pressure to be accurately measured. They are suitable for long-term measurements and measurements requiring high accuracy. Furthermore, they are for not only differential pressure measurement but also indication and control of automation systems based on characteristics of differential pressure sensor like flow rate measurement.

Note: Copper alloy is used for liquid-contacting part.  
Avoid measuring corrosive liquid or gas.

### 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 $\pm 1\%$    |

#### Environmental Characteristics

|                              |   |
|------------------------------|---|
| Safe Temperature             | -10 to 70°C   |
| Compensated Temperature      | 0 to 60°C   |
| Temperature Effect on Zero   | Within $\pm 0.01\%$ RO/°C<br>(100GA: Within $\pm 0.05\%$ RO/°C) |
| Temperature Effect on Output | Within $\pm 0.03\%$ /°C<br>(100GA: Within $\pm 0.5\%$ /°C)      |

#### Electrical Characteristics

|                        |  |
|------------------------|--|
| Safe Excitation        | 15 V AC or DC  |
| Recommended Excitation | 1 to 10 V AC or DC   |
| Input Resistance       | 350 $\Omega$ $\pm 1\%$   |
| Output Resistance      | 350 $\Omega$ $\pm 1\%$   |
| Cable                  | 4-conductor (0.3 mm <sup>2</sup> ) chloroprene shielded cable,<br>7.6 mm diameter by 5 m long, terminated with a connector plug<br>PRC03-12A10-7M<br>(Shield wire is connected to the case.) |

#### Mechanical Properties

|                       |  |
|-----------------------|--|
| Safe Overloads        | Differential Pressure 200% (100, 200GA)<br>150% (500GA, 1KA)<br>125% (2KA) |
| Natural Frequencies   | See table below.   |
| Maximum Line Pressure | 3 MPa  |
| Weight                | Approx. 5 kg (Excluding cable)   |

\*To use for gas, contact us.

When A side is a high pressure, plus output.  
When B side is a high pressure, minus output.  
(For A-side and B-side, see the dimension below.)

| Models   | Rated Capacity | Natural Frequencies (Approx.) |
|----------|----------------|-------------------------------|
| PD-100GA | 10 kPa         | 60 Hz                         |
| PD-200GA | 20 kPa         | 110 Hz                        |
| PD-500GA | 50 kPa         | 230 Hz                        |
| PD-1KA   | 100 kPa        | 400 Hz                        |
| PD-2KA   | 200 kPa        | 700 Hz                        |

### Dimensions

