PD-A
Differential Pressure Transducer



High line pressure margin transducers

●**Rated capacity: 10 to 200 kPa**

Differential pressure transducers accurately measure slight pressure differences under high line pressure. They are suitable for long-term measurements and measurements requiring high accuracy. Beyond pressure difference measurement, they enable flow measurement and other automation system applications such as indication and control, utilizing the features of differential pressure transducers.

To Ensure Proper Usage

●Copper alloy material used for the liquid-contacting part. Do not use with liquids or gases that could corrode this material.
●Suitable for measuring oil pressure. Please contact us if using for gas pressure measurement.

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.3% RO
Hysteresis	Within ±0.2% RO
Rated Output	1.5 mV/V ±1%
Environmental Characteristics	
Safe Temperature	−10 to 70℃
Compensated Temperature	0 to 60℃
Temperature Effect on Zero	Within ±0.01% RO/℃ (100GA: Within ±0.05% RO/℃)
Temperature Effect on Output	Within ±0.03%/℃ (100GA: Within ±0.5%/℃)
Electrical Characteristics	
Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω ±1%
Output Resistance	350 Ω ±1%
Cable	4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by
	5 m long, terminated with a connector plug PRC03-12A10-7M
	(Shield wire is connected to the case.)
Mechanical Properties	
Safe Overloads	Differential Pressure 200% (100, 200GA)
	150% (500GA, 1KA)
	125% (2KA)
Natural Frequencies	See table below.
Material	Liquid-contacting part: Copper alloy
Maximum Line Pressure	3 MPa
Weight	Approx. 5 kg (Excluding cable)
Notes	
The air vent of this product is designed on the assumption that the	
pressure medium is a liquid. Therefore, if used to measure gas pressure,	
leakage may occur. We recommend using a pressure transducer that does	
not have an air vent for gas pressure measurement.	

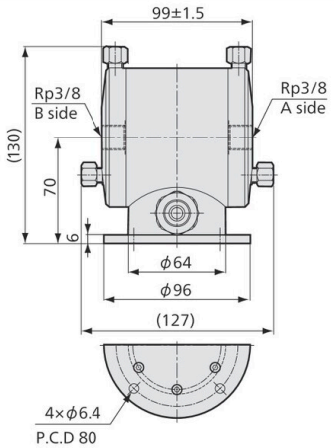
*When A side is a high pressure, plus output.
When B side is a high pressure, minus output.
(For A-side and B-side, see the dimension below.)

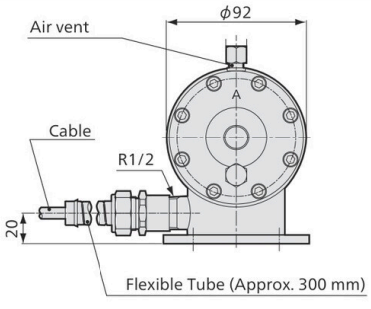
■Models

Model	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

*TEDS-installed models are available. Please contact us.

■Dimensions





Connector plug (standard)
PRC03-12A10-7M

