PDU-A

Stainless Steel Differential Pressure Transducer



Adjust response frequency

- **Rated capacity: 50 kPa to 2 MPa**
- **Overload protection mechanism (max. line pressure: 30 MPa)**
- **Response frequency adjustment range: 0.01 to 30 Hz, -3 dB**

Stainless steel differential pressure transducers equipped with a damping adjustment mechanism to adjust their response frequency.

To Ensure Proper Usage

- Stainless steel 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

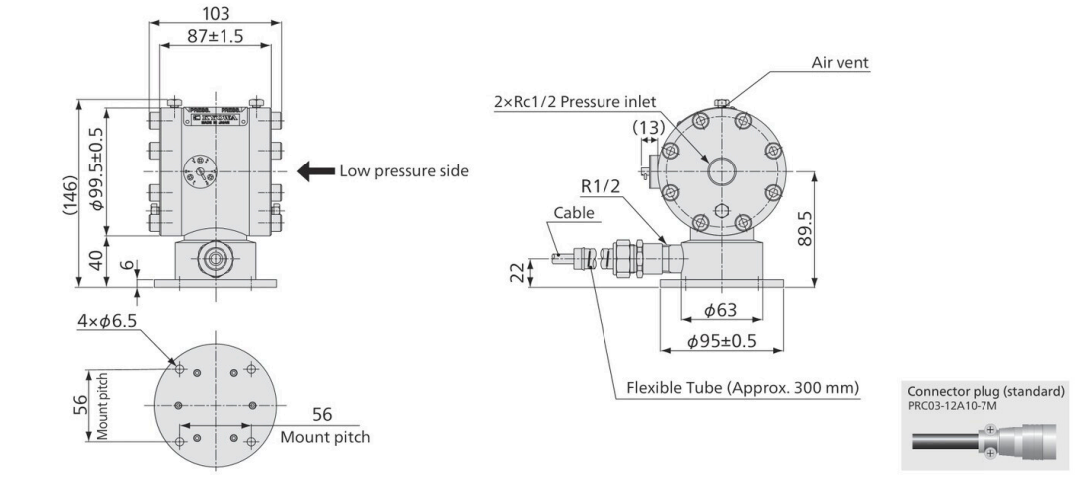
Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.2% RO (50KP to 500KP)
	Within ±0.25% RO (1, 2MP)
Hysteresis	Within ±0.2% RO (50KP to 500KP)
	Within ±0.25% RO (1, 2MP)
Repeatability	0.1% RO or less
Rated Output	1.5 mV/V ±0.5%
Environmental Characteristics	
Safe Temperature	-30 to 90℃
Compensated Temperature	-20 to 80℃
Temperature Effect on Zero	Within ±0.01% RO/℃
	(50KP, 100KP: Within ±0.02% RO/℃)
Temperature Effect on Output	Within ±0.01%/℃ (50KP, 100KP: Within ±0.02%/℃)
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 mm^2) 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	150%
Maximum Line Pressure	30 MPa
Material	Liquid-contacting part: Stainless steel
Weight	Approx. 6 kg (Excluding cable)
Compliance	Directive 2011/65/EU, (EU)2015/863 (10 restricted substances) (RoHS)
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.	

Models

Model	Rated Capacity
PDU-A-50KP	50 kPa
PDU-A-100KP	100 kPa
PDU-A-200KP	200 kPa
PDU-A-500KP	500 kPa
PDU-A-1MP	1 MPa
PDU-A-2MP	2 MPa

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

Dimensions



Strain Gage
Load Cell
Pressure Sensor
Acceleration Sensor
Torque Sensor
Displacement Sensor
Component Force Sensor
Automotive Sensor
Civil Engineering Sensor