



OEM Piezoresistive Pressure Transmitter



P046

For pressure, hydraulic & pneumatic equipment, anti-interference, long-term stability, provides multiple types of pressure connections

| Features |

- Compact structure, small size.
- Strong anti-interference, good long-term stability.
- Can measure absolute pressure, gauge pressure.
- A variety of electrical connections, easy to install and use.
- Liquid contacting diaphragm 316L.
- Minimum order quantity 10pcs.

| Introduction |

P046 Pressure transmitter is specially designed for small and medium equipment applications, is designed with compact structure which especially applies to the installation in small space. Such as booster pumps, air compressors and air conditioning system.

Also suitable for a variety of other industrial applications, with a variety of structures, output forms and pressure connections to meet the requirements of most applications.



Application :
Air compressor / Hydraulic and
pneumatic equipment /
Air conditioning systems / Piping
systems / Water treatment plant /
Industrial process control



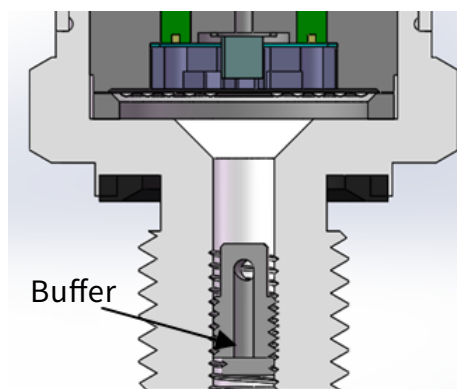
| Specification |

Item	Function & Parameter
Measuring range	-1 ... 400 bar
Pressure type	Relative pressure, absolute pressure
Output signal / Power supply	4 ... 20mA, 0 ... 5V, 0 ... 10V(12 ... 30VDC) 0.5 ... 4.5V R/M(5VDC)
Accuracy	$\pm 0.5\% \text{F.S. (typ.)}$
Hysteresis & repeatability	$\leq \pm 0.1\% \text{F.S.}$
Temperature drift	$\leq \pm 1.5\% \text{F.S. (-20 ... 85}^\circ\text{C)}$
Response time	< 4ms
Ambient Temp.	-20 ... 80°C
Medium Temp.	-30 ... 105°C
Storage Temp.	-40 ... 120°C
Mechanical vibration	Sine curve: 20g, 25Hz ... 2kHz Random: 7.5grms, 5Hz ... 1kHz
Impact resistance	Shock: 200g/1ms Free fall: 1m
IP rating	IP65
Material	Wetted parts: SUS316L Housing: SUS304 Electrical connection: PA66 NBR: less than 60 mpa Viton: more than 60 mpa
Net weight	50g ... 90g

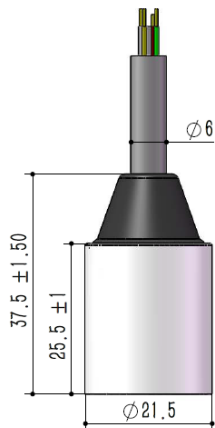
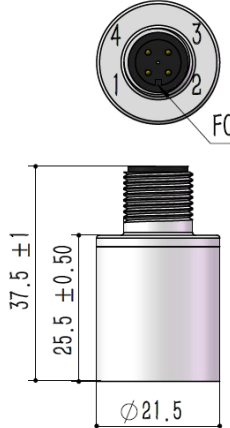
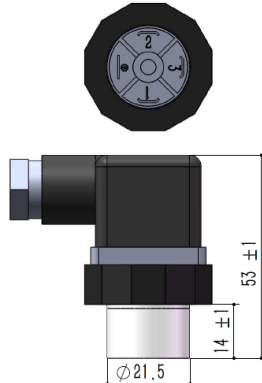
| Buffer selection |

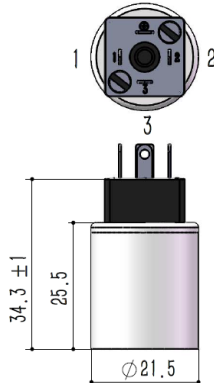
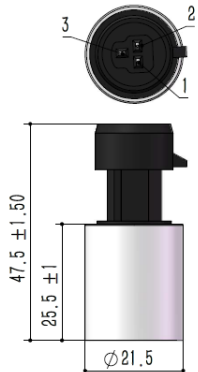
Application

Cavitation, liquid hammer and pressure peak may occur in air or hydraulic systems with varying flow rates, such as the rapid closing of the valve or the start and stop of the pump. Even at relatively low operating pressures, these problems may occur at the entrance and exit.

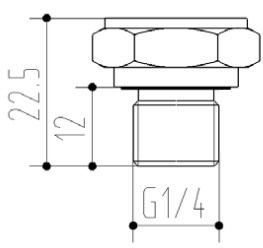
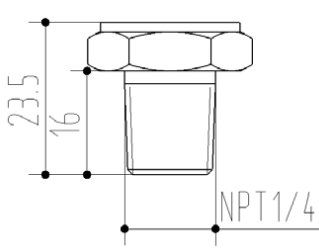
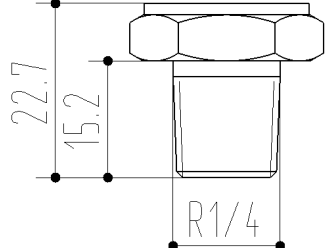
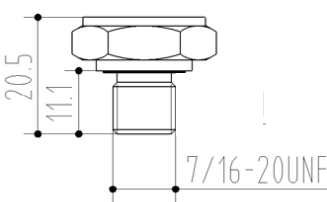
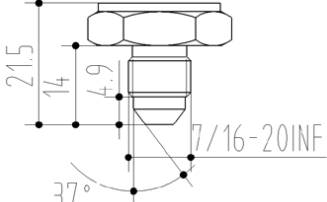
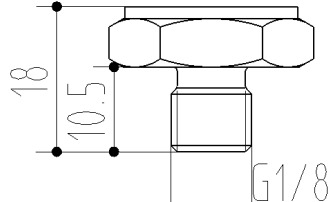
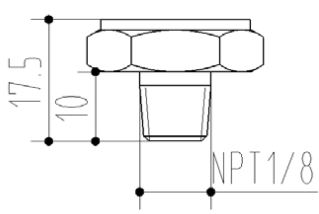
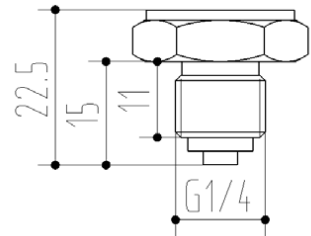
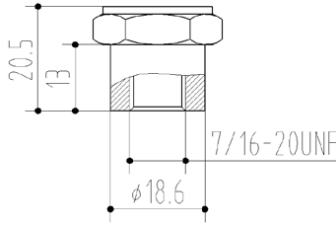


Electrical connection & Connection method |

Connector type	Wire-out	M12:Quick connector	DIN 43650 / DINEN / DIN175301-803-A
Dimension Unit:mm			
Wiring method (2-Wire / AC)	Red:supply+ Green:current output	1:Supply+ 2:Current output	1:Supply+ 2:Current output
Wiring method (3-Wire / DC)	Red:supply+ Green:ground Yellow:voltage output	1:Supply+ 2:Voltage output 3:Ground	1:Supply+ 2:Ground 3:Voltage output

Connector type	Mini din (DIN175301-803-C)	Round packard
Dimension Unit:mm		
Wiring method (2-wire / AC)	1:Supply+ 2:Current output 3:Pending	1:Supply+ 2:Current output
Wiring method (3-wire / DC)	1:Supply+ 2:Ground 3:Voltage output	1:Supply+ 2:Ground 3:Voltage output

| Connecting thread |


Code	1:G1/4"	2:NPT1/4"	3:R1/4"
Dimension Unit:mm			
Code	4:7/16-UNF	5:7/16-UNF 37°	6:G1/8"
Dimension Unit:mm			
Code	7:NPT1/8"	8:G1/4A"(EN 837)	9:7/16-20UNF Female
Dimension Unit:mm			

Note: Recommended torque 15 ... 25 Nxm, depends on various factors such as material of gasket, supporting aterials, lubrication of thread and pressure.

| Measuring range selection |

Measuring range	Overpressure	Burst pressure
0 ... 0.7 bar	300 %F.S.	600 %F.S.
0.7 bar ... 25 bar	200 %F.S.	500 %F.S.
40 bar ... 60 bar	200 %F.S.	400 %F.S.
100 bar ... 400 bar	200 %F.S.	300 %F.S.

Fitting

Model	Picture	Description	Note
M4 Damper		1. Can refer to the use of the damper 2. Thread code is 7/16-20UNF 37°, 7/16-20UNF female, G1/4" pressure port not applicable.	Option

Ordering Guide

Note: Minimum order quantity 10pcs

	Pressure type	Pressure range	Output	Connecting thread	Electrical connector
P046 -	0	11	1	2	2
	0: Absolute pressure 1: Relative pressure	00: -1 ... 0 bar 11: 0 ... 1 bar 12: 0 ... 1.6 bar 13: 0 ... 2.5 bar 14: 0 ... 4.0 bar 16: 0 ... 6.0 bar 21: 0 ... 10 bar 22: 0 ... 16 bar 23: 0 ... 25 bar 24: 0 ... 40 bar 25: 0 ... 60 bar 26: 0 ... 100 bar 27: 0 ... 160 bar 28: 0 ... 250 bar 29: 0 ... 400 bar	1: 4 ... 20mA 6: 0 ... 10V 7: 0 ... 5V 8: 0.5 ... 4.5V	1: G1/4" 2: NPT1/4" 3: R1/4" 4: 7/16-UNF 5: 7/16-UNF 37° 6: G1/8" 7: NPT1/8" 8: G1/4" (EN 837) 9: 7/16-20UNF Female	1: DIN43650 2: M12 with 2m cable 3: Wire-Out 4: MINI DIN 175301-803-C 5: Round packard

Additional option (ILAC/TAF) Test report



Additional option: Yuden standard calibration laboratory test report (TAF accreditation: 3032) complying with ISO/IEC 17025. TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Pressure gauge	Gauge pressure: 10 ... 7000kPa (5 basic points or 3 basic points) Absolute pressure: 20 ... 170kPa (5 basic points or 3 basic points)