

**P046****OEM Piezoresistive Pressure Transmitter****Pressure - P046**www.eyc-tech.com

| 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 10 pcs.(same range)

| 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.

| Applications |

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

| Specification |

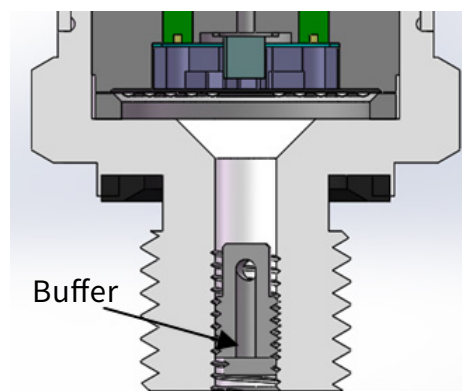
| Item | Function & Parameter |
|------------------------------|---|
| Measuring range | -1 ... 400 bar |
| Pressure type | Relative pressure, absolute pressure |
| Output signal / Power supply | 4 ... 20mA, 0 ... 5V, 0 ... 10V(12 ... 30VDC) 0.5 ... 4.5V R/M(5VDC) |
| Accuracy | $\pm 0.5\%$ F.S.(typ.) |
| Hysteresis & repeatability | $\leq \pm 0.1\%$ F.S. |
| Temperature drift | $\leq \pm 1.5\%$ F.S.(-20 ... 85°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 |

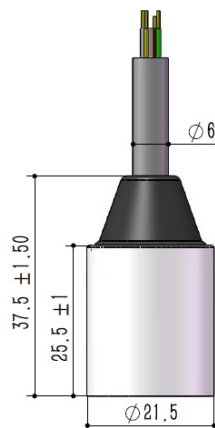
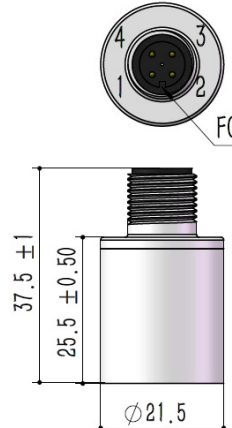
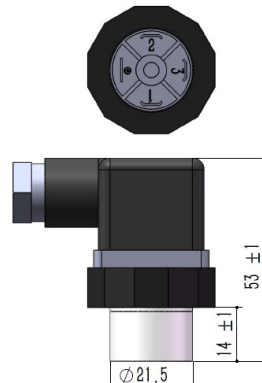
Application

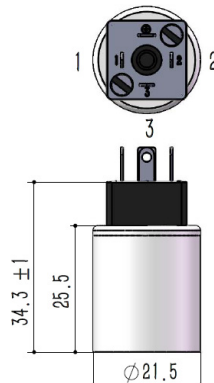
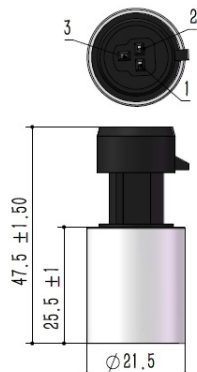
Cavitation, liquid hammer and pressure peak may occur in air or hydraulic systems with varying flow rates, such as the rapid closing of the valve or the start and stop of the pump.

Even at relatively low operating pressures, these problems may occur at the entrance and exit.

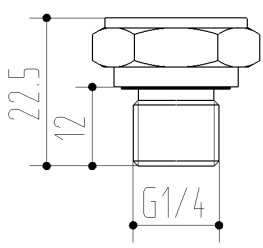
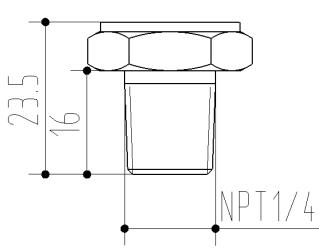
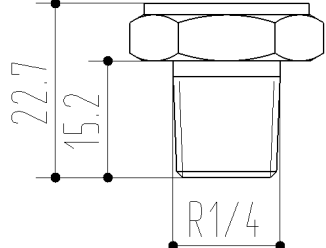
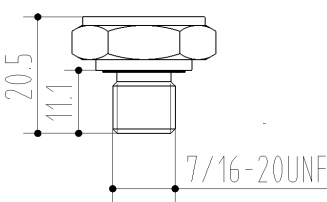
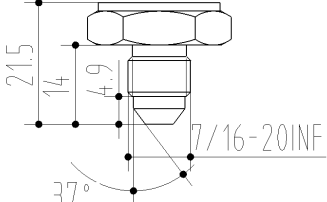
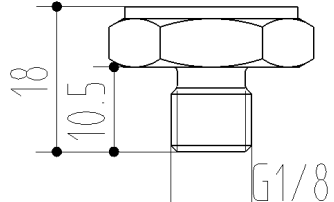
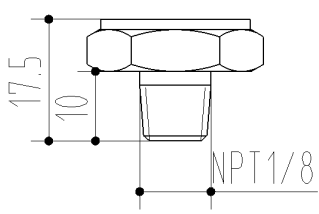
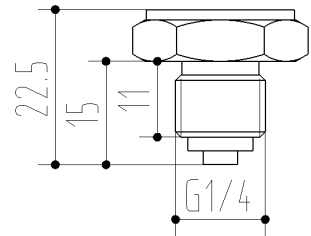
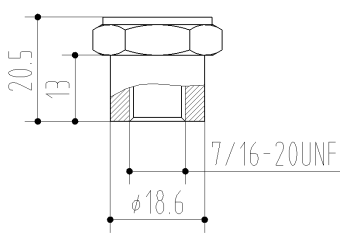


Electrical connection & Connection method |

| 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(same range)

| | 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 ... 20 mA 6 : 0 ... 10 V 7 : 0 ... 5 V 8 : 0.5 ... 4.5 V | 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 Test Report

For more detailed information please contact us.

ILAC / TAF

YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report.

(TAF accreditation : 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

| Project | Measurand level or range |
|----------------------|---|
| Pressure transmitter | Relative pressure : 10 kPa ... 7000 kPa |
| | Absolute pressure : 20 kPa ... 170 kPa |