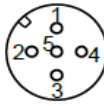
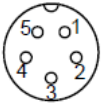


Characteristic & Applications

- Strong Body Structure Against High Temperature
- Different Signal Output Options: mA, or V or mV / V
- ZERO and SPAN Setting
- More Durable with INCONEL 718 Alloy Membrane
- High Stability
- Accurate measurement
- Long life
- Resistant to Parasites
- 80% Internal calibration
- Good stability and repeatability
- Different Thermocouple Options: J Type, K Type, E Type, PT100



5 PIN Series

MPS Economic Series is widely used in polymer industry requiring easy installation, good repeatability. It's various signal outputs such as mV/V, 0-5V, 0-10V or 4-20 mA are able to be connected with many pressure display. This series can also be quipped with temperature measurement component like E,J,K thermocouple. MPS series transducer adopts standart 1/2"-20 UNF thread. The MPS ECO series product technology is widely accepted by peers all over the world.

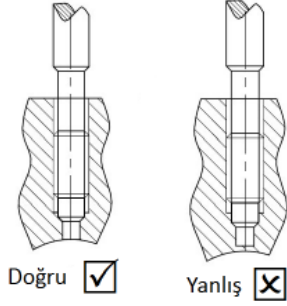
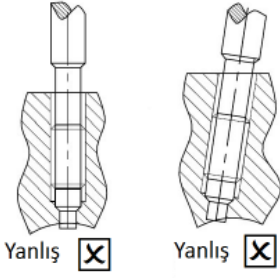
Technical Parameter

Characteristic

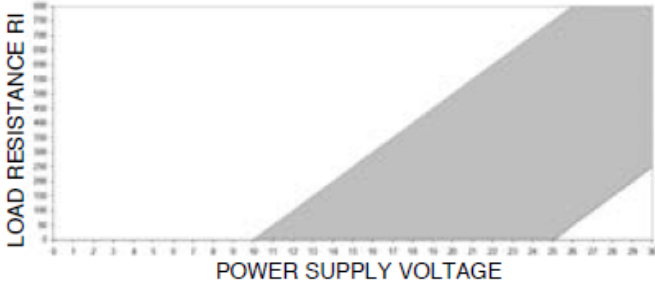
| | |
|--|---|
| Power Supply | mV/V: 10 V DC(recommended), mA or V : 24V DC |
| Signal Output | mV/V, mA or V |
| Accuracy | ±0.25% FS, ±0.5% FS, ±1% FS |
| Repeatability | ±0.2% FS |
| Working Temperature | mV/V, mA: 185° F (85" c) |
| Overload Ability | 2x FS |
| Pressure Range (bar) | 0-35 Bar---2000Bar |
| Pressure Unit | psi, Bar, kPa or MPa |
| Zero Adjustment (±% FS) | mV/V: No, mA: ± 20% |
| Zero Balance Design (±% FS) | mV/V: ± 10%: mA: ± 0.5% |
| Zero Drift (caused by progress temperature change) | 1.5bar/100° F(3bar/100°) |
| Bridge Resistance | mV/V: 345 Ω, at least |
| Overload Resistance | mA: 1100 Ω, at most |
| Insulation Resistance | mV/V: 1000MΩ @50 Vdc mA: 100M Ω @50 Vdc |
| Shunt Calibration (R-Cal) | 80% FS ± 1% FS |

Mechanical and Sealing Characteristics

| | |
|-----------------------------------|--|
| Transducer Technology | Bonded Wheatstone and Wheatstone bridge |
| Diaphragm Temperature | 750° F(400°C), at most |
| Diaphragm Materials | 5 Different Diaphragm Options |
| Progress Connection | 1/2 – 20 UNF and M14 × 1.5, M16 × 1.5, M18 × 1.5 Thread |
| E – connection | 5 PIN |
| Install Torque | 500 in/lbs , at most |
| Temperature Transducer (optional) | E/J/K/PT100 Type Thermocouple Matches With 3" Flexible Conduit |
| Certification | Patented |
| Certification | CE Certified |
| Recommend Fitting | |
| Install Tools | Component GJ |
| 6 Pin E – connection | Component CON06 |
| Matching Connection | |
| Fix Frame (electric device) | Spares No.:ZJ, cable Fitting, indicator |



The point to be considered during assembly is that the tip of the Sensor, which performs Pressure Measurement, is not damaged during assembly. If this part is damaged, the Sensor will not measure correctly.



The diagram shows the optimum ratio between load and power supply for transmitters with 4...20mA output. For correct function, use a combination of load resistance and voltage that falls within the shaded area.

E-Connection

5-PIN Standard Aviation Connector



M12 Standard Aviation Connector



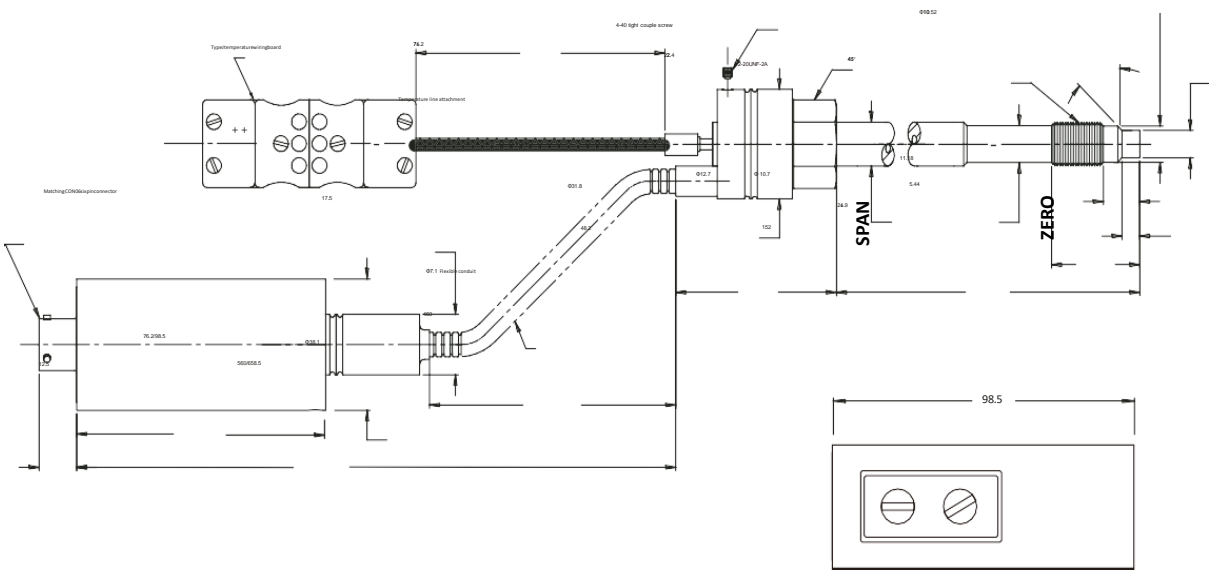
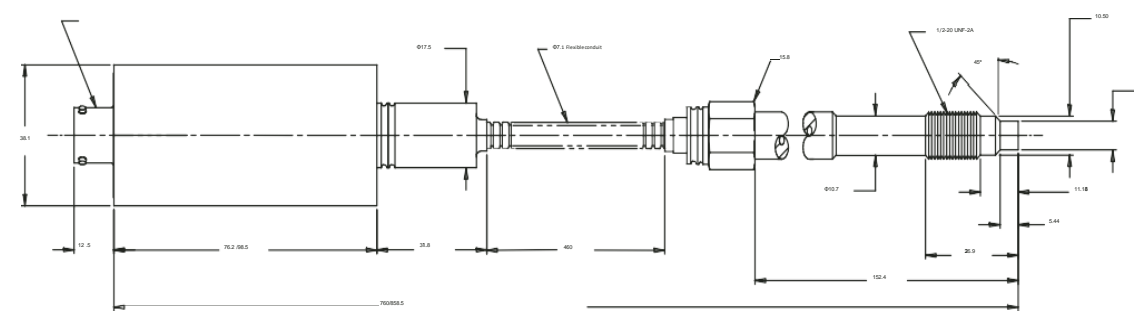
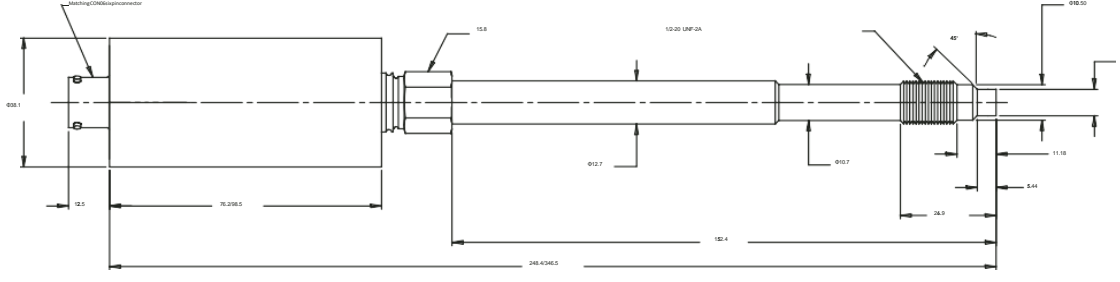
Non-Alarm Output Type

| Port | Wiring Definition |
|------|-----------------------|
| 1 | DC24V input |
| 2 | blank |
| 3 | GND grounding wire |
| 4 | blank |
| 5 | 4~20mA current output |

Alarm Output Type

| Port | Wiring Definition |
|------|-----------------------|
| 1 | DC24V input |
| 2 | A1 alarm port |
| 3 | GND grounding wire |
| 4 | A2 alarm port |
| 5 | 4~20mA current output |

Outline Dimensional Drawing



Order Code

PT15

000

| Option | |
|----------|----|
| Autocomp | SP |
| Standard | - |

| Version | |
|-----------------------|---|
| Rigid stem | 0 |
| Rigid stem + flexible | 1 |
| With thermocouple | 2 |

| Output signal | |
|---------------|----|
| mV / V | mV |
| mA | mA |
| V | V |

| Accuracy | |
|-----------|---|
| 0.25% FSO | A |
| 0.5% FSO | B |
| 1% FSO | C |

| Measurement range | |
|-------------------|------|
| bar / psi | |
| 35 / 500 | 5C |
| 50 / 750 | 7.5C |
| 70 / 1000 | 1M |
| 100 / 1500 | 1.5M |
| 200 / 3000 | 3M |
| 350 / 5000 | 5M |
| 400 / 5800 | 58M |
| 500 / 7500 | 7.5M |
| 600 / 8700 | 87M |
| 700 / 10000 | 10M |
| 1000 / 15000 | 15M |
| 1400 / 20000 | 20M |
| 2000 / 30000 | 30M |

| Thread | |
|-------------------------|------|
| 1/2 - 20 UNF (Standard) | 1/2" |
| M14 x 1,5 | M14 |
| M16 x 1,5 | M16 |
| M18 x 1,5 | M18 |

000 = standard version special or customized versions available on request

| Diaphragm Type | |
|----------------|-------------------|
| - | Standart (17-4PH) |
| C2 | Hastelloy |
| I7 | Inconel 718 |
| T2 | TIN |
| D2 | DCN |

| Thermocouple Type | |
|-------------------|-------------------|
| - | None Thermocouple |
| J | J Type |
| K | K Type |
| E | E Type |
| PT100 | PT100 Type |

| Autozero | |
|----------|----------|
| - | Magnetic |
| E | External |

| Flexible stem length (mm/inches) | |
|----------------------------------|----------------------|
| 3" | 76mm 3" |
| 6" | 152mm 6" |
| 12" | 300mm 12" |
| 18" | 457mm 18" (Standard) |
| 24" | 610mm 24" |
| 28" | 711mm 28" |
| 30" | 760mm 30" |
| 36" | 914mm 36" |
| 42" | 1067mm 42" |
| 48" | 1220mm 48" |
| 54" | 1372mm 54" |

| Rigid stem length (mm/inches) | |
|-------------------------------|---------------------|
| 1.5" | 38mm 1.5" |
| 2" | 50mm 2" |
| 3" | 76mm 3" |
| 6" | 153mm 6" (Standard) |
| 12.5" | 318mm 12.5" |
| 14" | 350mm 14" |
| 16" | 400mm 16" |
| 18" | 456mm 18" |