Your vision, automated

# MCOMPTD

## PRESSURE SENSOR WITH DISPLAY

The MCOM-PTD Series is a compact, stainless-steel pressure transmitter designed for accurate and stable measurement up to 10 bar. With a media-isolated silicon sensor, multiple output options, and wide compatibility of pressure ports and connectors, it fits easily into most OEM and industrial applications. Its robust IP67 design, wide temperature range, and excellent long-term stability ensure reliable performance in demanding environments.

## ➢ APPLICATIONS

- Water pressure measurement
- Liquid and gas pressure measurement
- Hydraulic systems
- Engine fuel pressure measurement
- Refrigerator and Air compressor
- Autoclaves and ETO sterlizers
- Sewage treatment, water supply, petroleum chemical and pharmaceutical industry.

## ➢ FEATURES

- Gauge, Absolute and Vacuum pressure measurement
- Measuring ranges From 0 to 10 bar (other ranges on request)
- Process temperature from -40 to +125°C
- Wide range of pressure ports and electrical connectors
- Housing and diaphragm made of premium stainless steel
- Customized OEM version available

## ➢ PERFORMANCE

- Accuracy 0.065% of calibrated Span
- Stability ±0.1% of URL for 10 years
- Insulation Resistance >100MΩ/500VDC
- Over Range Protection 300%F.S.( ≤70kPa) , 200%F.S.(<10Mpa)
- Temperature Drift <+1.5% FS(-20 to 85°C)
- Response Time ≤150ms (up to 90%F.S.)
- Reverse Polarity Protection Yes

## ➢ THERMAL

→ **Temperature**

| | |
|---|---|
| Ambient Temperature | -20°C to 85°C |
| Medium Temperature | -40°C to 100°C |
| Storage Temperature | -40°C to 110°C |

→ **Thermal Limits**

| | |
|---|---|
| Compensated Range | 0°C to 70°C |
| TC Zero | ≤ ±1.5% FS |
| TC Span | ≤ ±1.5% FS |

## ➢ ENVIRONMENTAL

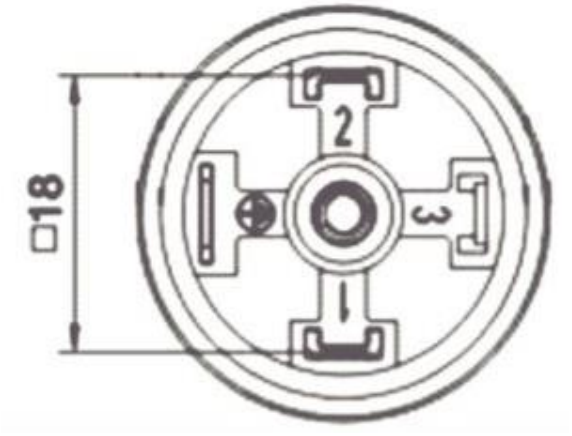
- EMI/RFI Protection : Yes (Electromagnetic Compatibility Directive 2014/30/EU)
- IP Rating : IP67
- Humidity : 0 – 100% RH
- Vibration : 20g (25∼2000HZ) Sine Curve; IEC 60068-2-6
- 200g/1ms; IEC 60068-2-27

## ➢ ELECTRICAL

- **Input** 10 – 30VDC
- **Output** 4-20mA/ HART
- **Output** 1-5V, 1-6V, 0-4V (3 Wire)

## ➢ WIRING GUIDE

| Output | Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|---|---|---|---|---|
| **4-20mA (2-wire)** | +V | -V | N/A | N/A |
| **Voltage (3-wire)** | +V | Ground | Signal | N/.A |
| **mV (4-wire)** | Signal | Ground | +V | -Signal |

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