

CS-PT300Gfor General Pressure Transmitter

Features

- Silicon oil sensor
- Standard Range 0 ... 0.2~100bar
- Output 4 ... 20 mA,DC 0 ... 10 V, DC 0 ... 5 V and others
- Electrical connection includes DIN43650 A/C, M12 x 1, Packard Metri-Pack, Cable and others
- Pressure connection includes G1/2, G1/4, M20*1.5, NPT1/2, NPT1/4 and others
- Over voltage and Reverse voltage
- High accuracy

Applications

- General industrial applications
- Simple thus reliable measurement in development and research
- Distributors, resellers, and wholesalers in various industries

Description

The PT300 pressure transmitter for general purpose is an ideal solution for general industrial applicationswhitchis orderedwithout seal.

The range of pressure measurementcan be up to 100bar, with all of standard industry output signals, most common international process connections and numbers of electrical connections.

Furthermore, it offers three options for the accuracy, 0.25 %F.S ,0.5 % F.S, and 1 %F.S.


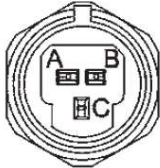

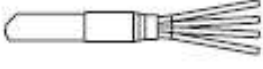

All variants described in this data sheet are available on veryshort lead times. For particularly urgent demands, there is asizeable stock available.

Performance specifications

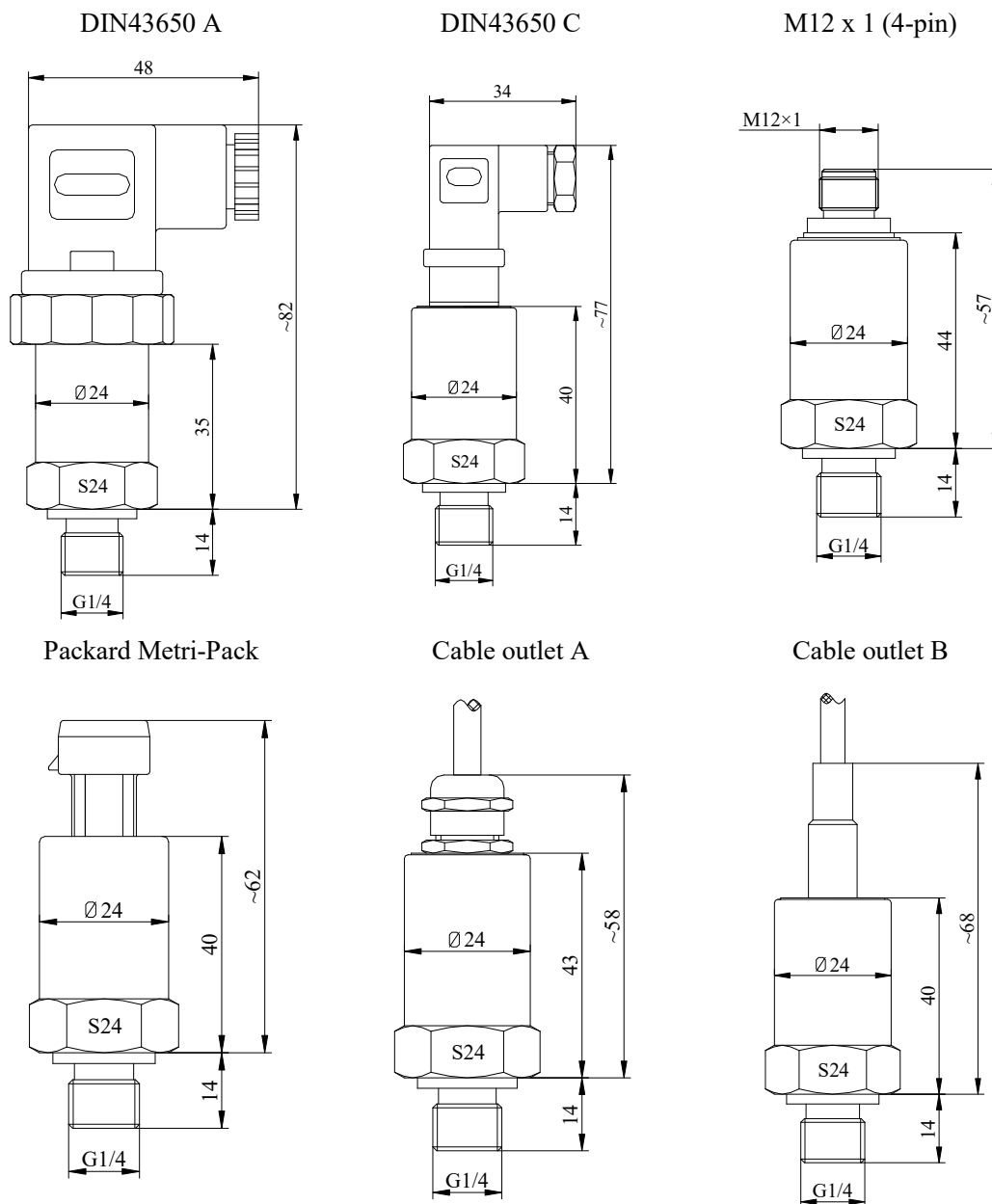
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|---------------------------------|--|-----------|---------|--------|--------|
| Standard range | 0 ... 0.2~100bar | | | | |
| Proof pressure | ≥150%F.S | | | | |
| Accuracy at 25°C | ±1%F.S standard, ±0.25%F.S and ±0.5%F.S optional, include no-linearity, hysteresis, repeatability, and calibration error | | | | |
| Long-term stability. | ±0.25%FS/year | | | | |
| Response Time | ≤10ms | | | | |
| Operating Temperature | -40°C~125°C | | | | |
| Compensated Temperature | 0°C~50°C | | | | |
| Storage Temperature | -40°C~125°C | | | | |
| Output Signal ^{note 1} | 2-wire 4~20mA | 0~10VDC | 0~5VDC | 1~5VDC | 1~6VDC |
| Supply Voltage | 8~28 VDC | 13~28 VDC | 8~28VDC | | |

| | | |
|----------------------------|--|--------|
| Supply Current withno Load | — | ≤ 8 mA |
| Output Load | $\leq (U-8) / 0.023\Omega$ | ≥10KΩ |
| Overvoltage | 30VDC | |
| Reverse Voltage | -30VDC | |
| Insulate Resistance | ≥100MΩ@100VDC | |
| IP Rating | IP65 | |
| Random Vibration | 10g, 5~2000Hz | |
| Shock | X/Y/Z, 20g, sine 11ms | |
| Drop (any Axis) | 1m | |
| Pressure connector | G1/2, G1/4, M20*1.5, NPT1/2, NPT1/4 and others | |
| connector material | 316L stain steel default | |
| Electrical connection | DIN 43650 A/Cor M12 x 1 or Packard or Cable outlet or others | |
| Seal material | Same as connector material | |

Electrical connection

| | | | |
|---|----------------------|--|---------------------------|
| DIN 43650 A(3/2-wire) | | Packard Metri-Pack(3/2-wire) | |
|  | U+ / I+ = 1 |  | U- / Shield = A |
| | U- / I- = 2 | | U+ / I+ = B |
| | S+/Unused = 3 | | S+/I- = C |
| | Shield = 4 / Housing | | Shield = Housing |
| DIN 43650 C(3/2-wire) | | Cable outlet(3/2-wire) | |
|  | U+ / I+ = 1 |  | U+ / I+ = Red |
| | U- / I- = 2 | | U- / Shield = Black |
| | S+/Unused = 3 | | S+/I- = Green / Blue |
| | Shield = 4 / Housing | | Shield=Yellow/ Housing |
| M12 x 1(4 Pin)(3/2-wire) | | | |
|  | U+ / I+ = 1 | | |
| | S+ / I- = 2 | | |
| | U- / Unused = 3 | | |
| | Shield = 2 / Housing | | |

Structure and Dimension (mm)



Notes

1. For 0~5VDC and 0~10VDC output, the 0 is not real zero output, and the minimum output voltage is 50mVDC.
2. Only use the pressure sensor to test the medium which have no corrosion to its housing and seal material.
3. Can not use sharp tools to clean the pressure hole when the hole of the pressure sensor is blocked. The pressure sensor shall be removed from system and put the pressure hole part into the fluid which can dissolve the blocking substance.
4. In order to protect the transmitter used at areas with many lightning, suggest adding a lightning protection device and reliably connecting the shield line to EARTH.
5. For other need contact factory.