

Pressure-Sensor.com

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CE 🔇

Model PSC122 Semi Finished Pressure Transducer Front End for Heavy Industry and General Purpose Industrial Applications

PSC122 Pressure Transducer Front End was developed for all types of industrial applications. The design is based on high temperature, inorganically bonded, media isolated, piezoresistive technology that offers reliable and accurate measurements under harsh environmental conditions. The robust construction of PSC122 offers stable operation when subjected to shock and vibration. Suitable for use in transducers for Off-road vehicles, injection molding machines, Hydraulic Pumps and controls, etc.

State of the art design machined from a solid piece of stainless steel provides a leak-proof, all metal sealed system. There are no O-rings, welds or organics exposed to the pressure media. Features digital compensation and temperature correction for high accuracy and stability.

PSC122 offers EMI and RFI immunity as per CE requirements, making it top of the PSC12X range.

- · Gauge Pressures
- ASIC Temperature Compensated
- Robust construction to stand high vibrations
- Recommended load resistance: >10.000 ohms
- 2 % Total Error Band
- Wetted Parts: 17-4PH SS (other material available)
- · Process Fitting: see column Z

Sample Applications:

- · Process Automation & Control
- Plastic and Alloy injection machines · Test and Measurement Equipment
- Factory Automation
- Energy Management
- Heavy industry

| PSC122 Ordering Model NO.: PSC122-X-Y-Z-X | | | |
|---|----------------|-----------------------|-----------------------|
| X | Y | Z | Х |
| Output Type | Pressure Range | Port Type | Special configuration |
| B = 0.5~4.5V | 3 = 100 psi | 1 = 1/8-27 NPT | Consult factory |
| (Ratiometric) | 4 = 250 psi | 2 = 1/4-18 NPT | |
| C = 4~20mA | 5 = 500 psi | 3 = DIN3852-A-G1/4 | |
| D = 1.0~5.0V | 6 = 1000 psi | 4 = DIN3852-E-G1/4 | |
| E = 0.5~4.5V | 7 = 2500 psi | 5 = DIN3852-A-M10*1.0 | |
| X = Special | 8 = 5000 psi | 6 = DIN3852-A-M12*1.5 | |
| | 9 = 10000 psi | 7 = 7/16-20 UNF | |
| | X = Special | X = Special | |
| | · | | |
| | | | |

| Electrical data | PSC122-B (Ratiometric) | PSC122-C (4~20mA) | PSC122-D (1.0~5.0VDC) | PSC122-E (0.5~4.5VDC) |
|-------------------|---------------------------|----------------------|--------------------------|--------------------------|
| Supply Voltage | 4.75 ~ 5.25VDC | 9 ~ 32VDC | 9 ~ 32VDC | 9 ~ 32VDC |
| Output | 0.5 ~ 4.5 VDC | 4 ~ 20 mA | 1.0~5.0 VDC | 0.5 ~ 4.5 VDC |
| Supply Current | < 3 mA | <30 mA | < 3 mA | < 3 mA |
| Zero Output | 0.5 VDC | 4 mA | 1.0 VDC | 0.5 VDC |
| Full Scale Output | 4.5 VDC | 20 mA | 5.0 VDC | 4.5 VDC |



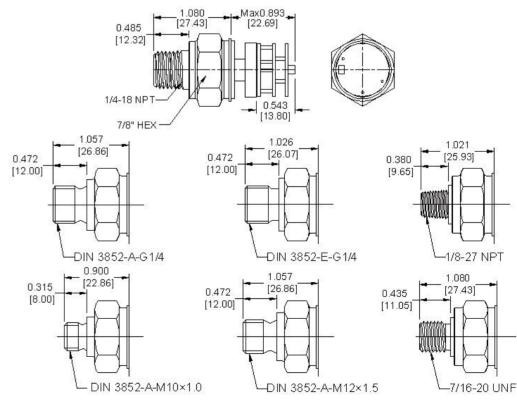
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| Performance (specified @ 25 C) | |
|----------------------------------|-----------------------------|
| Accuracy(Best fit straight line) | ± 0.5% BFSL |
| Error | ± 2.0% FS TEB |
| Zero/Span Offset Tolerance | ± 1.5%FS |
| Stability (typical) | <±0.25% full scale per year |
| Compensated Temperature Range | -20 ~ 85 °C |
| Operating Temperature Range | -40 ~ 100 °C |
| Storage Temperature Range | -40 ~ 100 °C |
| Burst Pressure | 3 X Full Scale |
| Proof Pressure | 2 X Full Scale |
| Pressure Cycles | 4 million full scale cycles |
| | |
| | |

| Agency Approvals | | | | |
|---|--|--|--|--|
| IEC61000-4-2 | Electrostatic Discharge Immunity: 8kV Contact; 15kV Air; 3 Discharges; C | | | |
| IEC61000-4-3 | EM Field Immunity: 50V/m, 1MHz~80MHz; 100V/m, 80MHz~1GHz, 1.0% step | | | |
| IEC61000-4-4 | Electrical Fast Transient Immunity: 1kV (Level 2), 120s, 5kHz Repetition F | | | |
| IEC61000-4-5 | Surge: 1kV (Level 2), L-L 1KV, L-E 2kV. Class B. Max recorded output err | | | |
| IEC61000-4-6 | Conducted Immunity: 10V/140dB, 150kHz~80MHz (Level 3). Class B. Ma | | | |
| IEC61000-4-9 | Pulsed Magnetic Field Immunity: 100A/m (Level 3). Class B. Max recorder | | | |
| IEC55022 Emission: Class A, 40dB 30-220MHz, 47dB 230MHz-1GHz | | | | |
| All exercise encryptions are explicitly exciting in the type of heuring use | | | | |

All agency approvals are subject to variations in the type of housing use. All these are referenced to cylindrical stainless steel housings.

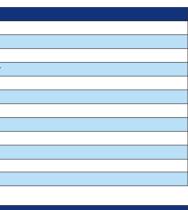
Structure reference (Unit: Inch[mm])



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Class B. Unit survived

ps, 2s Dwell. Max recorded output error <±2.0% Span Rate. Class B. Max recorded output error <±1.5% error <±1.5% Span

Nax recorded output error <±2.0% Span ed output error <±1.5% Span



