



Multi-Range Critical Pressure Transducer



Applications

- □ Service/Retrofit Friendly
- □ Sub-Contractors- Quick Installation
- Flexible for Building Specification Changes
- Service Technicians- Quick & Accurate Reconfiguration
- Hospitals
- Isolation Rooms
- □ Vivariums

Overview

The PS-MRC Series is a multi-range low differential pressure transducer uses a dead-ended capacitive sensing element that requires minimal amplification and delivers excellent accuracy and longterm stability. The PS-MRC Series is the industries first multi-range sensor designed for critical environments. It is the only multi-range sensor available with ±0.5% FS accuracy and field selectable ranges down to 0.1" W.C., a requirement for critical applications. The PS-MRC Series has 4 selectable ranges and 3 selectable outputs, easily adjustable on the job with a flip of a switch or jumper. The PS-MRC Series is offered with 3 different housing configurations: Duct Probe, DINrail or Wall Mount and a universal design that incorporates all 3 configurations in one to address any installation changes on the job site.

Features & Benefits

- Field Configurable Duct Probe
- □ 4 Digit LCD
- □ Field Selectable Range
- □ Field Selectable Output
- □ Simple 5-Step Setup
- □ Field Accessible Push-Button Zero & Span
- □ External Mounting Tabs & Optional DINrail
- □ Unregulated AC/DC Operation
- □ IP67 Rated Housing



Model Selection

PS-MRCSC	Multi-Range Critical Pressure Transducer, 0.1, 0.25"W.C. / 25, 50 Pa / ±0.1, ±0.25"W.C / ±25, ±50 Pa, Standard (Base Mount), 1/2" Conduit with Cal Certification ²
PS-MRCUC ¹	Multi-Range Critical Pressure Transducer, 0.1, 0.25"W.C. / 25, 50 Pa / ±0.1, ±0.25"W.C / ±25, ±50 Pa, Universal, 1/2" Conduit with Cal Certification ²
PS-MRCDC	Multi-Range Critical Pressure Transducer, 0.1, 0.25"W.C. / 25, 50 Pa / ±0.1, ±0.25"W.C / ±25, ±50 Pa, DIN Rail, 1/2" Conduit with Cal Certification ²
PS-MRCPC	Multi-Range Critical Pressure Transducer, 0.1, 0.25"W.C. / 25, 50 Pa / ±0.1, ±0.25"W.C / ±25, ±50 Pa, Duct Probe, 1/2" Conduit with Cal Certification ²

Notes:

- 1. Code U, Universal unit includes Duct Probe and DIN Rail options.
- 2. Calibration certificate is standard and is provided for highest range ± 0.25 "W.C. on ± 50 Pa.

Product Specifications

Performance Data

Thermal Effects ² %FS/°F(°C) ————————————————————————————————————	±0.5% FS — 32 to 122°F (0 to 50°C) — 0.03 (0.054) — 10 PSI — 1 PSI — 1.0% FS/YR
Position Effect Zero Offset %FS/G (Unit is factory calibrated at 0g effect in the vertice)	al position) 0.5%
Physical Description Case	Fire-Retardant
Mounting Electrical Connection Block Pressure Fitting Zero	Polycarbonate (UL 94 V-0 Approved), Hinged Lid Two Screw Holes Vertical Position Removable Screw Terminal 3/16" O.D. Barbed Brass Push Button Push Button 8 Ounces
Environmental Data Operating Temperature ³	32 to 122°F (0 to 50°C)
· ·	13 to 30 VDC/18 to 24 VAC (Voltage Output) 13 to 30 VDC (4 to 20mA output at terminals)
Current Consumption Mis-Wiring Field Selectable Output ⁴ Output Resistance (Voltage Output) Load Resistance (Voltage Output)	30mA (max) 30mA (max) Reverse Excitation Protection 0 to 5 V, 0 to 10V (3-wire), 4 to 20mA (2-wire) 10 Ohms (max) 10 K-Ohms (min) 0 to 800 Ohms CE & RoHS Compliant
Approval ————————————————————————————————————	CE & RoHS Compliant

Pressure Media

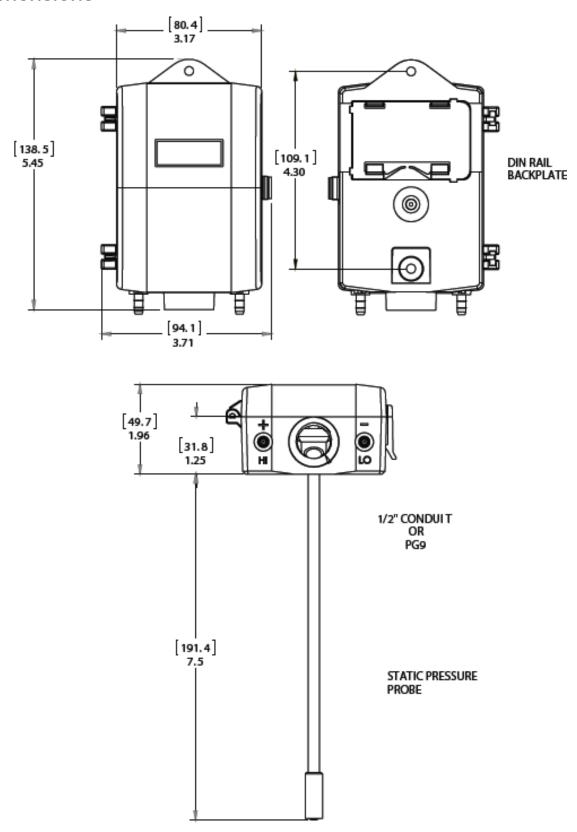
Typically air or similar non-conducting gases.

Notes:

- 1. RSS of Non-Linearity, Hysteresis, and Non-Repeatability.
- 2. Units calibrated at nominal 70°F . Maximum thermal error computed from this datum.
- ${\it 3. \ Operating temperature limits of the electronics only. \ Pressure media temperatures may be considerably higher.}$
- 4. Calibrated into a 50K ohm load, operable into a 10K ohm load or greater.
- $5. \ \ \text{Span (Full Scale) output factory set to within 1\%}.$
- 6. Calibrated at factory with a 24 VDC loop supply voltage and a 250 ohm load.
- 7. Span (Full Scale) output factory set to within ± 0.16 mA.

Specifications subject to change without notice.

Dimensions



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