



Multi-Range General Pressure Transducer



Overview

The PS-MRG Series is a differential pressure transducer. The PS-MRG Series is the ideal product for any contractor, combining the flexibility of a multi-range with the performance of a single range transducer. The PS-MRG Series has 8 selectable ranges and 3 selectable outputs, easily adjustable on the job with a flip of a switch or jumper. The PS-MRG Series uses an IP67 rated housing and has a conduit fitting for easy wiring, making the PS-MRG Series an ideal solution for any general HVAC application.

Applications

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

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 DIN Rail
- □ Unregulated AC/DC Operation



Model Selection

PS-MRGSA	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, Standard (Base Mount) with 1/2" Conduit
PS-MRGSC	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, Standard (Base Mount), 1/2" Conduit with Cal Certification ²
PS-MRGUA	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, Universal¹ with 1/2" Conduit
PS-MRGUC	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, Universal ¹ , 1/2" Conduit with Cal Certification ²
PS-MRGDA	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, DIN Rail with 1/2" Conduit
PS-MRGDC	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, DIN Rail, 1/2" Conduit with Cal Certification²
PS-MRGPA	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, Duct Probe with 1/2" Conduit
PS-MRGPC	Multi-Range General Pressure Transducer, 0.5, 1.0, 2.5, 5.0"W.C. / 100, 250, 500, 1,000 Pa / \pm 0.5, \pm 1.0, \pm 2.5, \pm 5.0"W.C. / \pm 100, \pm 250, \pm 500, \pm 1,000 Pa, Duct Probe, 1/2" Conduit with Cal Certification²

Notes

^{1.} Code U, Universal unit includes Duct Probe and DIN Rail options.

^{2.} Calibration is performed at highest range.

Product Specifications

Performance Data

Accuracy RSS¹ (at constant temp)	50°C) .054)) PSI dent)
Position Effect Zero Offset %FS/G ————————————————————————————————————	0.5%
Physical Description Case Fire-Retardant Polycarbon- ate (UL 94 V-0 Approved), Hinged Mounting Two Screw Holes Vertical Poss Electrical Connection Block Removable Screw Term Pressure Fitting 3/16" O.D. Barbed B Zero Push Bu Span Push Bu Weight (approx.) 8 Our	Brass utton utton
Environmental Data Operating Temperature ³ ————————————————————————————————————	50°C)
Excitation Range 13 to 30 VDC/18 to 24 VAC (Voltage Out	inals)
Current Consumption————————————————————————————————————	max) ction wire) max) (min)

Pressure Media

Loop Resistance (4-20mA)-

Typically air or similar non-conducting gases.

Notes:

Approval

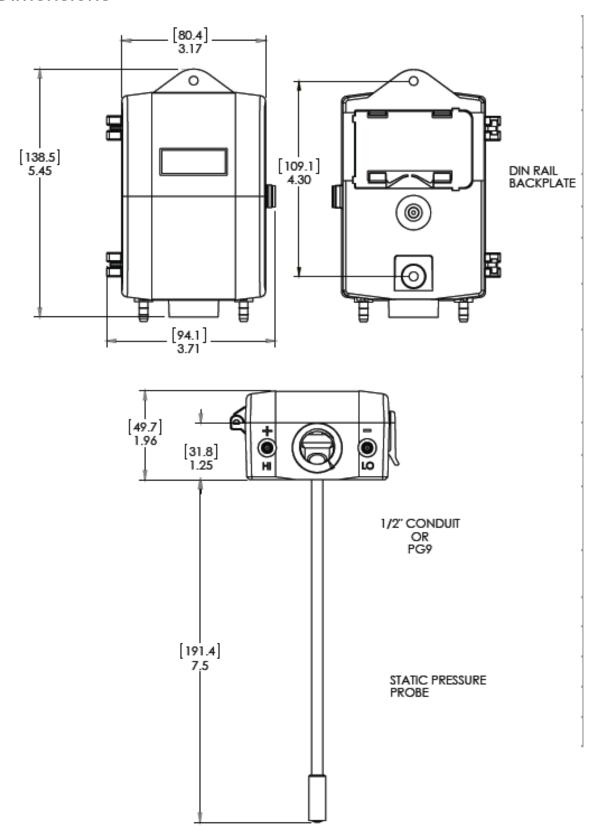
- 1. RSS of Non-Linearity, Hysteresis, and Non-Repeatability.
- 2. Units calibrated at nominal 70°F . Maximum thermal error computed from this datum.
- 3. Operating temperature limits of the electronics only. Pressure media temperatures may be considerably higher.
- 4. Calibrated into a 50K ohm load, operable into a 10K ohm load or greater.
- 5. 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 ±0.16mA.

Specifications subject to change without notice.

0 to 800 Ohms

CE & RoHS Compliant

Dimensions



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