LOW RANGE PRESSURE TRANSDUCER / TRANSMITTER

MODEL 210 / 310

FEATURES:

• Ranges from 0 to 5” WC thru 0 to 200 PSI, PSIA (64 mm WC to 14 BAR)
• 500 PSI proof pressure for all ranges (35 BAR)
• Welded 316 stainless steel wetted parts, no seals
• Optional improved accuracy <±0.05% FSO
• Gauge, vacuum or absolute format
• Wet-wet gauge design

APPLICATIONS:

• Laboratory
• Pressure decay systems
  Engine test stands
  Emission test stands
• HVAC

PRODUCT OVERVIEW:

The GP:50 Model 210/310 series provides a high accuracy, low pressure sensor with high proof pressure. With ranges as low as 0 to 5” WC the standard unit provides proof pressures to 500 PSI with an optional ±0.05% FSO static accuracy.

FIELD OPTIONS:

• Improved static accuracy to ±0.05% FSO
• Optional process and electrical connections
• Zero and span adjust
• Shunt calibration
### Reference Specifications

#### Electrical

- **Excitation Voltage:** Models 210/310: 8.0 to 32 Vdc  
  (Model 210: 0 to 5 Vdc, 0 to 10 Vdc  
  Model 310: 4-20 mA)
- **Output Voltage @ +70 °F:**  
  (Model 210): 0 to 5 Vdc, 0 to 10 Vdc  
  (Model 310): 4-20 mA
- **Load Impedance:**  
  (Model 210): ≤10K Ω  
  (Model 310): 750 Ω max.
- **Response Time:** Typ 35 ms for 90% FSO
- **Frequency Response:** flat to 100 Hz
- **Resolution:** infinite
- **Zero/Span:** Adjustable to ±20%
- **Connection:** 36” long PVC jacketed cable, 4 conductor, 22 AWG with strain relief

#### Mechanical

- **Process Connection:** Pressure 1/4” NPT (F) (options available)
- **Approximate Weight:** <1 lb (0.5 kg)
- **Proof Pressure:** 500 PSI (35 BAR)
- **Burst Pressure:** 2K PSI (138 BAR)
- **Optional 5K PSI optional (345 BAR)**
- **Orientation Shift (90°):** Zero - Typ 10-20%, Range Dependent
  Silicon oil filled (Krytox and other options available)

#### Pressure Ranges

- 5” WCD thru 200 PSI, PSIA (14 BAR)

#### Thermal Specifications

- **Compensated Range:** +32 °F to +180 °F (0 °C to +82 °C)
- **Effect on Zero/Span:** ± 1.0% FSO/100 °F  
  (Improved options: ±0.5 to ±0.25% FSO/100 °F)
- **Operating Range:**  
  0 °F to +185 °F (-17 °C to +85 °C)
  (Unit will operate to -40 °F with delayed response time)

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All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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