**FEAT URES**
- Custom level ranges up to 700 ft (210 m) H2O
- Custom polyurethane or ETFE cable lengths
- Static accuracy to ± 0.25% FSO
- Multiple Analog outputs
- Welded 316 SS or Titanium
- Optional lifetime lightning protection
- Custom-built in two days
- Two year warranty
- Multiple nose piece styles
- Shipped with long life vent filter

**APPLICATIONS**
- Lift stations
- Pump control
- Level control
- Surface water monitoring
- Landfill leachate
- Well monitoring
- Groundwater monitoring
- Slug tests

**F U L L  S C A L E  L E V E L  R A N G E S**
- Intermediate level ranges are available.
- Vented gage reference: 0.70 thru 710 ft (0.70 thru 210 m) H2O
- Sealed gage reference: 3 thru 720 ft (3 thru 210 m) H2O
- Absolute reference: 10 thru 720 ft (3 thru 210 m) H2O
- Proof pressure: 1.5 x FS
- Burst pressure: 2.0 x FS

**S T A T I C  P E R F O R M A N C E**
- Combined effects of non-linearity, hysteresis and repeatability, best fit straight line method.
- Static accuracy: ±720: ±0.25% FSO
±710: ±0.50% FSO
±700: ±1.00% FSO
- Resolution: ±0.0001% FSO

**E N V I R O N M E N T A L**
- Wetted materials: 316 SS or Titanium, Delrin®, polyurethane or Viton®.
- Delrin® and Viton® are registered trademarks of Dupont.
- Compensated temperature range: 0 to 50°C
- Maximum allowable deviation from the best fit straight line due to a change in temperature.
- Thermal error: ±0.05% FSO/°C worst case over compensated temperature range, for ranges < 12 ft (4 m) H2O.
- Maximum thermal error is ±0.1% FSO/°C
- Operating temperature range: -20 to 60°C when attached to polyurethane cable.
- Protection rating: IP 68, NEMA 6P

**E L E C T R I C A L**
- Excitation: 9.28V - VDC output (0-5V, 0-2.5V, 0-4V)
- 9.28V - mA output (4-20 mA)
- 10.28V - VDC output (1.5-7.5V)
- Input current: 20 mA max. for mA output, 3.5 mA max. for VDC output.
- Output: 4–20 mA, 0.5 VDC, 0.25 VDC, 0.25 VDC, 0.1 VDC, 1.5–7 VDC
- For ranges < 5 ft (1.5 m) H2O, only 4–20 mA output is available.

Zero Offset: ±0.25 mA for mA output, < 0.25 VDC for VDC output.
Output Impedance: See loop resistance diagram for mA output.
Insulation Resistance: 100 megaohm at 50 VDC
Circuit Protection: Polarity, surge/shorted output.

**C E R T I F I C A T I O N S**
- UL, CUL and FM - Intrinsically safety approved.

**P H Y S I C A L**
- Approximate weight: 0.44 Lbs (198 g) transducer, 0.05 Lbs/ft (79 g/m) cable.
- Cable jacket material: Polyurethane (standard), Tefzel®, Teflon® and Kevlar® are registered trademarks of Dupont.
- ETFE (optional), ETFE is a fluoropolymer (Teflon® derivative) material, Tefzel® or equivalent.
- Cable pull strength: 200 Lbs (90 kg).
- Cable number of conductors: 4.
- Cable conductor size: 22 AWG.
- Cable seal: Molded Polyurethane for polyurethane cable, Viton® Gland for ETFE cable.

**T E M P E R A T U R E  O U T P U T  O P T I O N**
- Not intrinsically safety approved.
- Temperature range: -20 to 60°C, available for 4-20mA output versions only.
- Temperature measurement accuracy: ±4°C.

**L I G H T N I N G  P R O T E C T I O N**
- Power supply needs to be limited to 150 mA to avoid lock up of the gas tube after a suppression event.
- Life expectancy: >1,000 Operations
- Peak Clamping Voltage: 36 Volts
- Response Time: <10 nsecs
1. The part number requires two level range limits, corresponding to maximum and minimum outputs, to be specified in pounds per square inch (psi) to three decimal places. The lower level range is typically 000.000 unless otherwise required. For reverse output requirements, enter the lower range for the maximum output and the upper range for the minimum output. Use the following conversion factors:

- \( \text{ft H}_2\text{O} / 2.3073 = \text{psi} \)
- \( \text{m H}_2\text{O} / 0.703265 = \text{psi} \)

*Add 1.95" for lightning protection option*

Example: 10 ft H\(_2\)O / 2.3073 = 4.334 psi

2. Contact PSI if private labeling is required.

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Warranty: The Series 700, 710 and 720 product is warranted against defects in material and workmanship for 2 years from date of shipment. Products not subjected to misuse will be repaired or replaced. THE FOREGOING IS IN LIEU OF ANY OTHER EXPRESSED OR IMPLIED WARRANTIES. We reserve the right to make changes to any product herein and assume no liability arising out of applications OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED. PRODUCTS DESCRIBED IN THIS SPECIFICATION ARE NOT INTENDED FOR LIFE SUPPORT APPLICATIONS.

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