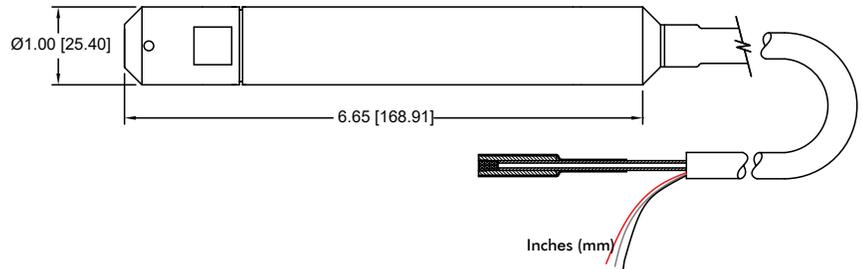


MODEL 413 FIELD RANGEABLE LEVEL TRANSMITTER



STANDARD WIRING

WIRE	MODEL 413
RED	+EXC/SIG
BLK	-EXC/SIG
GRN	N/C
WHT	N/C
SHIELD	OPEN



**REF DIMENSIONS ONLY.
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

PRODUCT OVERVIEW:

Model 413 from GP:50 is a line of field rangeable, highly accurate and reliable submersible level transmitters. The field adjustment option provides for zero and span adjustments as well as rangeability, eliminates the need to rescale your panel meter when replacing transmitters, and allows for fewer units to stock due to rangeability options. Their corrosion-resistant 316L stainless steel construction and an integrated hydrophobic breather vent help to provide years of maintenance-free service life.

FEATURES:

- Field rangeable electronics via HART USB Dongle
- $\pm 0.10\%$ FSO accuracy option
- Slim 1.0" (2.5 cm) diameter, 316L Stainless Steel housing
- Rugged, welded, leak-proof construction
- 0 to 20" WC thru 0 to 300 PSI (692 feet WC)

APPLICATIONS:

- Deep well and borehole
- Groundwater monitoring
- Reservoirs / dams
- Rig ballast control
- Weirs, wells, pond, reservoir, and dam level

OPTIONS:

- Lightning suppression
- Tefzel® or Hytrel jacketed cable
- Titanium Construction

GP:50 MODEL 413

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	Two-wire 4-20 mA with digital HART protocol
Excitation Voltage:	12 to 36 Vdc
Input Impedance:	250 Ω max. at 17 Vdc
Resolution:	12-bit
Circuit Protection:	RFI & EMI surge protection
Frequency Response:	0.07 to 40 sec (software adjustable)

MATERIALS OF CONSTRUCTION	
Housing:	316L SS
Wetter Parts:	316L SS

ACCURACY (BFSL): Non-Linearity @ +70 °F	
Standard:	$\pm 0.2\%$ FSO
Improved:	$\pm 0.1\%$ FSO
Zero & Span Balance:	$\pm 0.25\%$ FSO at +70 °F for each

MECHANICAL	
Process Connection:	PVC bullet nose (with 7/16-20 Male Port)
Electrical Connection:	Molded Hytrel jacketed, 6-conductor with breather tube, 24 AWG, 8' long, optional lengths available, Tefzel [®] jacketed cable optional
External Pressure:	Rated to 500 PSI (1,153 ft WC) max.
Proof Pressure:	2X FSO
Burst Pressure:	4X FSO
Approximate Weight:	10 oz. (0.3 kg)
Diameter:	1.0" (2.5 cm)

PRESSURE RANGES	
0-20" WC thru 300 PSI (50 MBAR to 35 BAR)	

THERMAL SPECIFICATIONS	
Operating Range:	-40 °F to +150 °F (-40 °C to +65.5 °C)
Compensated Range:	0 °F to +140 °F (-18 °C to +60 °C)
Storage:	-40 °F to +150 °F (-40 °C to +65.5 °C)
Effect on Zero/Span:	< $\pm 2.0\%$ FSO/100 °F

