



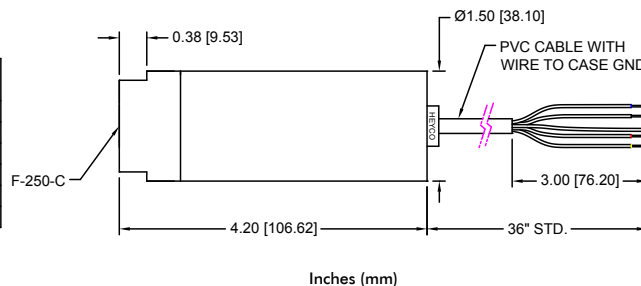
INDUSTRIAL

MODEL 112/212/312 ULTRA-HIGH PRESSURE TRANSDUCER



STANDARD WIRING

PIN OR WIRE COLOR	MODEL 112	MODEL 212	MODEL 312
1/A/RED	+EXC	+EXC	+EXC/SIG
2/B/GRN	+SIG	+SIG	N/C
3/C/WHT	-SIG	N/C	N/C
4/D/BLK	-EXC	-EXC/SIG	-EXC/SIG
5/E/BLU	+SHUNT (OPT)	+SHUNT (OPT)	+SHUNT (OPT)
6/F/BRN	-SHUNT (OPT)	-SHUNT (OPT)	-SHUNT (OPT)



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

PRODUCT OVERVIEW:

The Model 112/212/312 from GP:50 is an ultra high-pressure transducer, offered in a single piece sensor design with no welds or seals. All stainless steel construction and industry standard high-pressure coned process connections are available in both English and Metric sizes.

FEATURES:

- 0 to 20K PSI to 60K PSI (1,379 to 4,137 BAR): 17-4 PH SST; 61K to 150K PSI (4,206 to 10,342 BAR): Vascomax 300 (For water jets - Inconel 718)
- mV/V, Vdc & 4-20 mA outputs
- All welded, stainless steel construction
- Single piece sensor design has no welds or seals

APPLICATIONS:

- Water-jet cutting
- Oilfield wellheads
- Aseptic food processing
- Laboratory R&D
- Test stands

OPTIONS:

- mV/V, Vdc & 4-20 mA output
- Zero & span adjustments
- 80% and 100% shunt calibration
- Alternate connectors & pressure ports

GP:50 MODEL 112/212/312

REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

ELECTRICAL	
Output Signal:	(112) 3 mV/V (Amplified Output) (212) 0 to 5 Vdc, 0 to 10 Vdc (alternate outputs available) (312) 4-20 mA
Excitation Voltage:	(112) 3.5 to 15 Vdc excitation (212) 0 to 5 Vdc: 9.0 to 40 Vdc 0 to 10 Vdc: 13 to 40 Vdc (312) 9.0 to 36 Vdc
Bridge Resistance:	4K-6K Ω (Amplifier on output stage) (Options available)
Circuit Protection:	RFI, EMI & Reverse polarity protected
Response Time:	<5 ms 10% to 90%

MATERIALS OF CONSTRUCTION	
Wetted Parts:	20K PSI to 60K PSI (1,379 to 4,137 BAR): 17-4 PH stainless steel 61K to 150K (4,206 to 10,342 BAR): Vascomax 300 (For water jets - 718 Inconel)
Housing:	300 Series stainless steel

ACCURACY (BFSL): Non-Linearity @ +70 °F	
Standard:	$\pm 0.5\%$ FSO
Improved:	$\pm 0.2\%$ FSO
Zero Balance & FSO:	$\pm 1\%$ FSO at +70 °F (+21.1 °C)

MECHANICAL	
Process Connection:	20K to 60K PSI (1,379 to 4,137 BAR): Autoclave F-250-C 75K to 150K PSI (5,171 to 10,342 BAR): Autoclave F312-C150
Electrical Connection:	36" long, 4-conductor with 24 AWG, PVC Jacketed cable
Proof Pressure:	1.2X FSO or 120K PSI (8,274 BAR), (whichever is less)
Burst Pressure:	2X FSO or 120K PSI max. (8,274 BAR), (whichever is less)
Approximate Weight:	12 oz. (0.3 kg) nominal

PRESSURE RANGES	
0 to 20K thru 0 to 150K PSI (1,379 thru 10,342 BAR)	

THERMAL SPECIFICATIONS	
Operating Range:	-40 °F to +190 °F (-40 °C to +88 °C)
Compensated Range:	0 °F to +180 °F (-17.7 °C to +82 °C)
Storage Ambient:	-65°F to +250 °F (-53 °C to +121 °C)
Effect on Zero/Span:	$\pm 1.0\%$ FSO/100 °F
Improved temp compensation and expanded temperature range available	

