



ULTRA HIGH-PRESSURE TRANSDUCER

MODEL 112 / 212 / 312



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Ultra High-Pressure Transducer

FEATURES:

- 0 to 20K PSI thru 0 to 100K PSI (1,079 BAR to 6,895 BAR)
- 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

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.

FIELD OPTIONS:

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

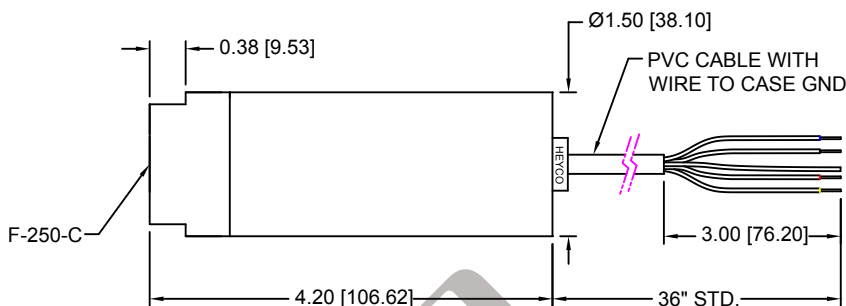
GP:50 MODEL 112 / 212 / 312

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL 112	MODEL 212	MODEL 312
RED	+EXC	+EXC	+EXC/SIG
GRN	+SIG	+SIG	N/C
WHT	-SIG	N/C	N/C
BLK	-EXC	-EXC/SIG	-EXC/SIG
BLU	+SHUNT (OPT)	+SHUNT (OPT)	+SHUNT (OPT)
BRN	-SHUNT (OPT)	-SHUNT (OPT)	-SHUNT (OPT)



REFERENCE SPECIFICATIONS

ELECTRICAL	STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> • Supply Voltage: (Model 112) 3.5 to 15 Vdc excitation (Model 212) 0 to 5 Vdc: 9.0 to 40 Vdc 0 to 10 Vdc: 13 to 40 Vdc (Model 312) 9.0 to 36 Vdc 	Standard: $\pm 0.5\%$ FSO Improved: $\pm 0.2\%$ FSO
<ul style="list-style-type: none"> • Output Signal: (Model 112) 3 mV/V (Model 212) 0 to 5 Vdc, 0 to 10 Vdc (alternate outputs available) (Model 312) 4-20 mA • Zero Balance and FSO: $\pm 1\%$ FSO at +70 °F (+21.1 °C) for each • Load Impedance: (Model 212) 50K Ω min. for <0.1% FSO attenuation (Model 312) 1,350 Ω max. at 37 Vdc, 750 Ω at 24 Vdc • Input Current: (Model 212) 8 mA nominal • Circuit Protection: RFI and EMI • Response Time: <5 ms 10% to 90% • Connection: 36" long, 4 conductor with 24 AWG, PVC jacketed cable. 	MECHANICAL <ul style="list-style-type: none"> • Process Connection: 20K to 60K PSI (1,379 to 4,137 BAR): autoclave type F-250-C 75K to 100K PSI (5,171 to 6,895 BAR): autoclave type F312-C150 • Proof Pressure: 1.2X FSO or 120K PSI (8,274 BAR), whichever is less • Burst Pressure: 2X FSO or 120K PSI (8,274 BAR), whichever is less • Approximate weight: 12 oz. (0.3 kg) nominal
MATERIALS OF CONSTRUCTION	PRESSURE RANGES <ul style="list-style-type: none"> • 0 to 20K thru 0 to 100K PSI (1,079 thru 6,895 BAR)
<ul style="list-style-type: none"> • 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 • Housing: 300 series stainless steel 	THERMAL SPECIFICATIONS <ul style="list-style-type: none"> • Compensated: 0 °F to +180 °F (-17.7 °C to +82 °C) • Operating: -20 °F to +190 °F (-29 °C to +88 °C) • Storage: -65 °F to +250 °F (-53 °C to +121 °C) • Effect on Zero/Span: $\pm 1.0\%$ FSO/100 °F

**Standard configurations shown.
Please consult factory for other options.**

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.