

INDUSTRIAL GRADE FLUSH DIAPHRAGM PRESSURE TRANSMITTER



Model 117 / 217 / 317 / 317Z
Industrial Grade Flush Diaphragm
Pressure Transmitter

MODEL 117 / 217 / 317 / 317Z

FEATURES:

- Flush diaphragm eliminates plugging
- Pressure ranges from 0 to 50 thru 0 to 10K PSI (3.4 to 689 BAR)
- Operating temperature range from -20 °F to +250 °F (-29 °C to +121 °C)
- Installs flush to tank wall
- 316L stainless steel wetted parts with optional Hastelloy C alloy alternative

APPLICATIONS:

- Adhesives and sealants
- Paint and oils
- Food processing
- Petrochemical
- Wastewater
- Viscous, corrosive or sticky media

PRODUCT OVERVIEW:

The 17 series flush diaphragm eliminates clogging of the process port in applications where a viscous or sticky media is used. The 316L wetted parts with optional Hastelloy-C make this impervious to corrosive medias and provide standard operating temperatures to +250 °F (+121 °C), with a +350 °F (+177 °C) option.

FIELD OPTIONS:

- FM / CSA Intrinsically Safe approval (317Z)
- Zero and span adjustments
- IP67 / NEMA 6 rating
- Comprehensive list of alternative electrical and process connections
- mV/V, 0 to 5 Vdc, 0 to 10 Vdc, 4-20 mA output
- Hastelloy C alloy wetted parts

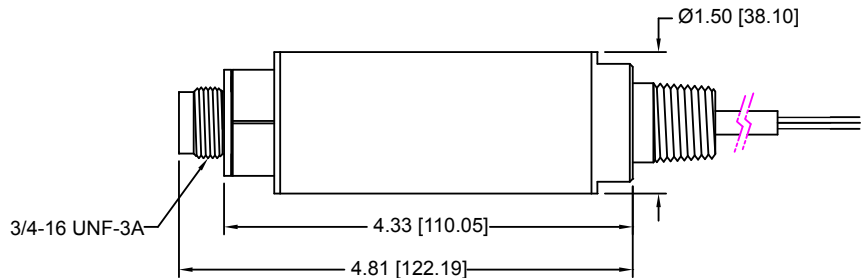
GP:50 MODEL 117 / 217 / 317 / 317Z

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL 117	MODEL 217	MODEL 317(Z)
1/RED	+EXC	+EXC	+EXC/SIG
2/GRN	+SIG	+SIG	N/C
3/WHT	-SIG	N/C	N/C
4/BLK	-EXC	-EXC/SIG	-EXC/SIG
5/BLU	+SHUNT (OPT)	+SHUNT (OPT)	+SHUNT (OPT)
6/BRN	-SHUNT (OPT)	-SHUNT (OPT)	-SHUNT (OPT)
SHIELD	OPEN	OPEN	OPEN



REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> Supply Voltage: (Model 117) 3.5 to 15 Vdc max. (Model 217/317) 9 to 40 Vdc Output Signal (@ +70 °F): (Model 117) 3 mV/V (Model 217) 0 to 5 Vdc, 0 to 10 Vdc (Model 317) 4-20 mA Input Current: (Model 217) 8 mA nominal Output Current: (Model 317) 2.0 mA max. for <0.1% FSO attenuation Input Impedance: (Model 117) 350 Ω nominal Load Resistance: (Model 117) 50K Ω min. for <0.1% FSO attenuation (Model 317) 1,350 Ω max. at 36 Vdc and 750 Ω max. at 24 Vdc Circuit Protection: RFI and EMI Insulation Resistance: > 10 MΩ at 50 Vdc and +70 °F Connection: 36" long PVC jacketed, 24 AWG, 4-conductor cable
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> Wetted Parts: 316 stainless steel (Optional Hastelloy C alloy) Housing: 316 stainless steel

STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
Standard: ±1.0 % FSO Improved: ±0.5% and ±0.2% FSO • Zero Balance and FSO: ±2.0% FSO @ +70 °F
MECHANICAL
<ul style="list-style-type: none"> Process Connection: 3/4" - 16 UNF-3A thread with Teflon O-ring and retaining rim Proof Pressure: 1.5X full scale pressure range or 12K PSI (827 BAR), whichever is less Burst Pressure: 5X full scale pressure range or 15K PSI (1,034 BAR), whichever is less Approximate weight: 8 oz. (0.2 kg) nominal
PRESSURE RANGES
<ul style="list-style-type: none"> From 0 to 50 thru 0 to 10K PSI (3.4 to 689 BAR)
THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> Compensated: 0 °F to +180 °F (-17.7 °C to +82 °C) Operating Process: -20 °F to +250 °F (-29 °C to +121 °C) Effect on Zero/Span: <±2% FSO/100 °F Orientation Shift: ±1" WC, option GJ or JH is recommended on ranges ≤ 200" WC

**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.