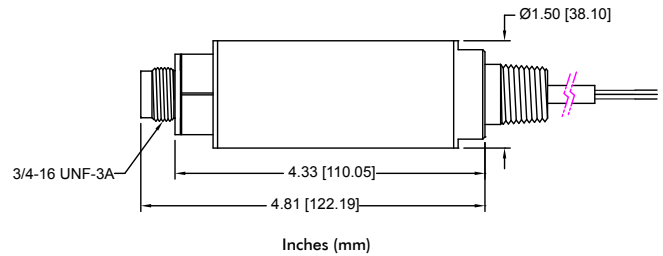


## MODEL 117/217/317/317Z INDUSTRIAL GRADE FLUSH DIAPHRAGM PRESSURE TRANSMITTER



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



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

### 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.

### 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

### 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

\*For details of available approvals go to:  
<https://www.gp50.com/certifications>

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

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Excitation 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
Input Impedance:	(Model 117) 350Ω 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
Insulation Resistance:	> 10 MΩ at 50 Vdc and +70 °F
Circuit Protection:	RFI and EMI And reverse polarity

MATERIALS OF CONSTRUCTION	
Wetted Parts:	316 Stainless Steel (Optional Hastelloy C alloy)
Housing:	316 Stainless Steel

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ +70 °F	
Standard:	±1.0% FSO
Improved:	0.5%
Zero Balance and FSO:	±2.0% FSO

MECHANICAL	
Process Connection:	¾" - 16 UNF-3A thread with Teflon O-ring and retaining rim
Electrical Connection:	36" long PVC jacketed, 24 AWG, 4-conductor cable
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	
From 0 to 50 thru 0 to 10K PSI (3.4 to 689 BAR)	

THERMAL SPECIFICATIONS	
Operating Range:	-20 °F to +250 °F (-29 °C to +121 °C)
Compensated Range:	0 °F to +180 °F (-17.7 °C to +82 °C)
Effect on Zero/Span:	< ±2.0% FSO/100 °F
Orientation Shift:	±1" WC, option GJ or JH is recommended on ranges ≤ 200" WC

