

## MODEL 188/288/388

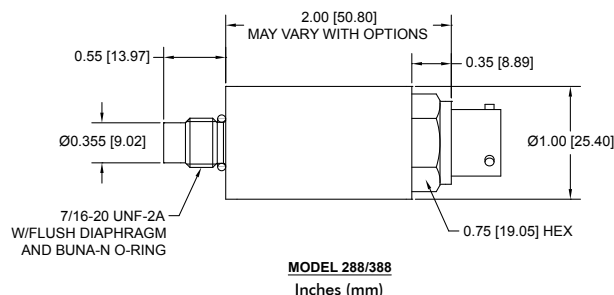
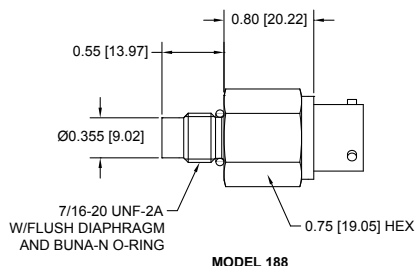
### MINIATURE FLUSH DIAPHRAGM PRESSURE TRANSDUCER



Model 188



Model 288/388



#### STANDARD WIRING

PIN	MODEL 188	MODEL 288	MODEL 388
A/1	+EXC	+EXC	+EXC/SIG
B/2	+SIG	+SIG	N/C
C/3	-SIG	N/C	N/C
D/4	-EXC	-EXC/SIG	-EXC/SIG
E/5	N/C	N/C	N/C
F/6	N/C	N/C	N/C

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

#### PRODUCT OVERVIEW:

Model 188/288/388 from GP:50 is a family of all-welded stainless steel miniature flush diaphragm pressure transducers. Their unique design incorporates a specialty flush process connection. This allows the transducer to effectively support higher viscosity fluid pressure measurements without port clogging or plugging. Their compact size allows for ease of installation within space constrained environments.

#### FEATURES:

- Flush diaphragm eliminates port plugging
- Compact, lightweight design <2 oz (56.7 gm)
- All-welded stainless steel construction
- Designed to eliminate any zero installation effect
- Rated for high shock and vibration applications
- -65 °F to +250 °F (-53.8 °C to +121.1 °C) operating temperature range
- Optional high-frequency response (>3 kHz)

#### APPLICATIONS:

- Adhesive, sealants & paint systems
- Food processing
- Extrusion
- Test stands
- Hydraulic systems

#### OPTIONS:

- 7/16-20 UNF flush pressure port
- 6-pin Bendix PTIH-10-6P standard (other connectors available)
- Temperature output, RTD, Type J & Type K thermocouples
- Hastelloy, Inconel wetted parts
- Extended temperature range of -65 °F to +350 °F (-54 °C to +177 °C)

# GP:50 MODEL 188/288/388

## REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

ELECTRICAL	
Output Signal:	(188) 2 mV/V (TYP) (288) 0 to 5 Vdc, 0 to 10 Vdc (388) 4-20 mA
Excitation Voltage:	(Model 188) 5 to 15 Vdc maximum (Model 288/388) 8 to 32 Vdc
Bridge Resistance:	(Model 188) 5000 $\Omega$ standard (350 $\Omega$ optional)
Circuit Protection:	(Model 288/388) Reverse polarity & Over voltage protected
Response Time:	(Model 188) 3 to 5 KHz (Model 288/388) ~1m Sec

MATERIALS OF CONSTRUCTION	
Wetted Parts:	Pressure port: 17-4 PH stainless steel (Inconel optional)
Housing:	300 Series stainless steel
O-Ring:	Buna-N

ACCURACY (BFSL): Non-Linearity @ +70 °F	
Standard:	(Model 188) $\pm 0.5\%$ FSO <4000 PSI (276 BAR) $\pm 0.25\%$ FSO $\geq 5000$ PSI (345 BAR) (Model 288/388) $\pm 0.25\%$
Improved:	$\pm 0.10\%$ or $\pm 0.05\%$ FSO
Zero & Span Balance:	$\pm 1\%$ FSO each

MECHANICAL	
Process Connection:	7/16-20 UNF
Electrical Connection:	PTIH-10-6P (consult factory for other options)
Proof Pressure:	2X range or 22.5K PSI max. (1,551 BAR)
Burst Pressure:	4X range or 22.5K PSI max. (1,723 BAR)
Approximate Weight:	(Model 188) <2 oz. (57 gms) (Model 288/388) <2.5 oz. (70 gm)

PRESSURE RANGES	
300 PSI to 20K PSI (21 to 1,379 BAR) (consult factory for other ranges)	

THERMAL SPECIFICATIONS	
Operating Range:	-65 °F to +250 °F (-54 °C to +121 °C) Optional extended range (Model 188): -65 °F to +350 °F (-54 °C to +177 °C)
Compensated Range:	-30 °F to +170 °F (-34 °C to +77 °C)
Storage Ambient:	-65°F to +250 °F (-54 °C to +121 °C)
Effect on Zero/Span:	(Model 188) $\pm 2.0\%$ FSO/100 °F (Zero/Span) (Model 288/388) $\pm 0.5\%$ /100 °F (Zero/Span) Optional $\pm 0.25\%$ /100 °F

