



## MINIATURE FLUSH DIAPHRAGM PRESSURE TRANSDUCER

### MODEL 188 / 288 / 388



Model 188



Model 288 / 388  
Miniature Flush Diaphragm  
Pressure Transducer

#### 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 -320 °F to +385 °F)
- Optional high-frequency response (>3 kHz)

#### APPLICATIONS:

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

#### 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.

#### FIELD 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)



I "8]glf]Vi tcf. :bhYfZLWY': cfW'A YUgi fYa Ybrg'@X'

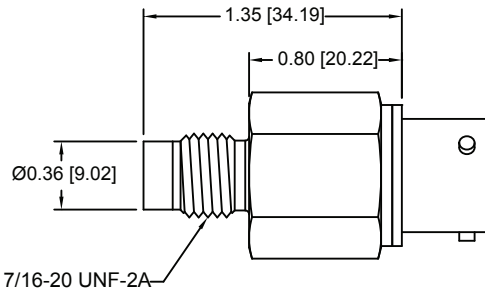
Tel: 6FH1Ä11111 Fax: 6FH1Ä11111 Email: Q{0 a c i -æ È \B{ ÄK YV.Ä, , È j i cB È VÄ



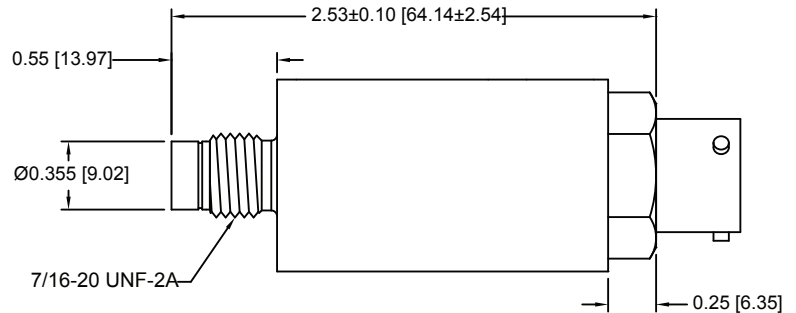
# GP:50 MODEL 188 / 288 / 388

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)



**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

## REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> <li><b>Excitation Voltage:</b> (Model 188) 5 to 15 Vdc maximum (Model 288/388) 8 to 32 Vdc</li> <li><b>Output Signal:</b> (Model 188) 2 mV/V (Model 288) 0 to 5 Vdc, 0 to 10 Vdc (Model 388) 4-20 mA</li> <li><b>Bridge Impedance:</b> (Model 188) 5000 Ω standard (350 Ω optional)</li> <li><b>Circuit Protection:</b> (Model 288/388) Reverse polarity protected Over voltage protection</li> <li><b>Response Time:</b> (Model 188) 3 to 5 KHz (Model 288/388) &lt;1 m Sec</li> </ul>	<ul style="list-style-type: none"> <li><b>Process Connection:</b> 7/16-20 UNF</li> <li><b>Electrical:</b> 6-pin Bendix (consult factory for other options)</li> <li><b>Approximate Weight:</b> &lt;2 oz (57 gm)</li> <li><b>Proof Pressure:</b> 2X range or 22.5K PSI max. (1,551 BAR)</li> <li><b>Burst Pressure:</b> 4X range or 25K PSI max. (1,551 BAR)</li> </ul>
<b>MATERIALS OF CONSTRUCTION</b> <ul style="list-style-type: none"> <li><b>Wetted Parts:</b> Pressure port: 17-4 PH stainless steel (Inconel, Hastelloy optional)</li> <li><b>Housing:</b> 300 series stainless steel</li> </ul>	<b>PRESSURE RANGES</b> (Model 188) 300 PSI to 20K PSI (21 to 1,379 BAR) (Model 288/388) 100 PSI to 20K PSI (7.0 to 1,379 BAR) (consult factory for other ranges)
<b>STATIC ACCURACY</b> (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F) (Model 188) ±0.5% FSO <4000 PSI (276 BAR) ±0.25% FSO ≥5000 PSI (345 BAR) (Model 288/388) ±0.25% (optional ±0.10% or ±0.05% FSO)	<b>THERMAL SPECIFICATIONS</b> <ul style="list-style-type: none"> <li><b>Compensated:</b> -30 °F to +170 °F (-34 °C to +77 °C)</li> <li><b>Operating:</b> -65 °F to +250 °F (-54 °C to +121 °C) Optional extended range: -65 °F to +350 °F (-54 °C to +177 °C)</li> <li><b>Storage Ambient:</b> -40 °F to +250 °F (-40 °C to +121 °C)</li> <li><b>Effect on Zero/Span:</b> (Model 188) ±2%/100 °F (Zero/Span) (Model 288/388) ±0.5%/100 °F (Zero/Span) Optional ±0.25%/100 °F</li> </ul>
	<b>OPTIONAL VARIATIONS</b> <ul style="list-style-type: none"> <li>Consult factory</li> </ul>

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.

**U.K. Distributor: Interface Force Measurements Ltd, Unit 19 Wellington Business Pk, Crowthorne, Berks**

**Tel:** 01344 776666 **Fax:** 01344 774765 **Email:** Info@Interface.uk.com **Web:** www.gp50.co.uk

