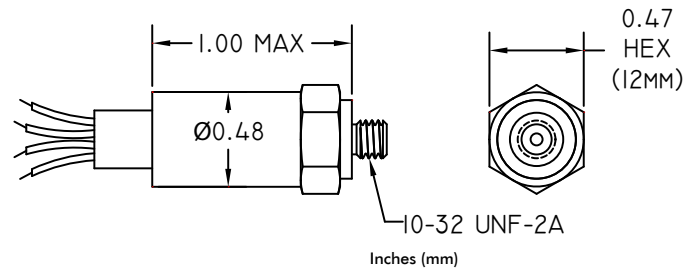


MODEL 189 MINIATURE PRESSURE TRANSDUCER



STANDARD WIRING

COLOR	MODEL 189
RED	+EXC
BLACK	-EXC
YELLOW	+SIG
WHITE	-SIG



Standard configurations shown.
Please consult factory for other options.

PRODUCT OVERVIEW:

The Model 189 series pressure transducer is a miniature design that provides reliable measurement where space and weight are a concern. The corrosion resistant construction and compact design can handle the toughest of environments. An 8-10 mV/V output is standard with optional remote amplifiers that provide 0-5 VDC or 4-20mA analog outputs and digital protocols of CAN Bus J1939 or CAN Open, RS485 or USB.

FEATURES:

- Miniature design for space constraint applications
- Thermally compensated from 32 °F to +176 °F (0 °C to +80 °C)
- Weight: ~12 grams (0.4 oz)
- Total length of less than 1 inch
- Operating temperature range -76 °F to +266 °F (-60 °C to +130 °C)
- Static accuracy to 0.5% FSO
- Pressure Range: from 0-100 to 0-5000 PSI

APPLICATIONS:

- Automotive On-Board
- Transmission & brake test stands
- Engine dynamometers
- Robotics & Automation

OPTIONS:

- Temperature output
- Optional process ports
- Remote signal conditioning
- Operating ranges to 300 °F (150 °C)

GP:50 MODEL 189

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	8-10 mV/V (Range dependent)
Excitation Voltage:	5 to 15 Vdc, calibrated at 10V
Bridge Impedance:	5000 Ω
Response Time:	3-5 kHz

MATERIALS OF CONSTRUCTION	
Pressure Port:	17-4 PH SST (Inconel, Titanium, and Nitronic 50)
Housing:	316 SST (Titanium optional)

ACCURACY (Includes Hysteresis, Non-Linearity & Repeatability)	
Standard:	$\pm 0.5\%$ FSO
Zero & Span Balance:	1% FSO @ +70 °F for each

MECHANICAL	
Process Connection:	10-32 UNF-2A
Electrical Connection:	6' 30AWG Cable
Proof Pressure:	2X (6,000 PSI max for 10-32 port)
Burst Pressure:	5X or 10,000 PSI max recommended for 10-32 UNF-2A thread
Torque Installation:	34 in-lbs
Total Length:	Approx. 1", 25mm
Approximate Weight:	12 gm

PRESSURE RANGES	
0-100 PSI to 0-5000 PSI (0-7 BAR to 0-345 BAR)	

THERMAL SPECIFICATIONS	
Operating Range:	-65 °F to +300 °F (-54 °C to +150 °C)
Compensated Range:	32 °F to +176 °F (0 °C to +80 °C)
Effect on Zero/Span:	$\pm 1.5\%$ FSO/100 °F

OPTIONAL VARIATIONS	
Consult factory for available options	

