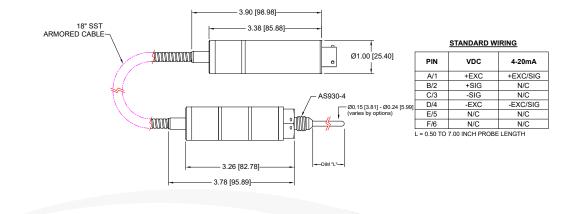




Standard configurations shown. Please consult factory for other options.

MODEL 7790 HIGH TEMPERATURE - PRESSURE & TEMPERATURE TRANSDUCER

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PRODUCT OVERVIEW:

GP:50's 7790 High Temperature series transducer provides pressure and temperature measurement up to +350 °F (+177 °C). The remote electronics provides a high level output of 4-20 mA or 0 to 5 Vdc while reducing the overall footprint by integrating pressure and temperature measurement in one device.

FEATURES:

- Process temperature rated to +350 °F (+177 °C)
- Remote electronics via stainless steel flex cable
- 4-20 mA Output
- Standard accuracy to ±0.2% FSO BFSL (Optional ±0.1% FSO)

APPLICATIONS:

- High temperature gas measurement
- Propulsion Systems
- Military and Defense Applications

OPTIONS:

- Digital outputs: CANbus, RS485 or USB
- 0 to 5 Vdc or 0 to 10 Vdc output (4-wire isolated option)
- Remote electronic cable lengths to 36"
- Zero and span adjustments
- Hydrogen or LOX compatibility options
- Cryogenic service down to -320 °F (-196 °C) (See GP:50 Model 7720)
- Various MIL-SPECS available. Consult factory.

GP:50 MODEL 7790

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	Pressure: 4-20 mA 0 to 5 Vdc, 0 to 10 Vdc (isolated options) CanBUS or RS485 Options Temperature: 4-20 mA 0 to 5 Vdc, 0 to 10 Vdc (isolated options) CanBUS or RS485 Options 100 Ω 2-wire platinum RTD standard 1000 Ω 2-wire platinum RTD optional
Excitation Voltage:	10 to 36 Vdc (Options may affect this)
Response Time:	Pressure: <4 ms Temperature: <2 Seconds

MATERIALS OF CONSTRUCTION	
Probe:	17-4 PH (Inconel, Monel or Nitronic 50 available)
Housing:	316 Stainless Steel
O-Ring:	Flourosilicone is standard
Flex Tubing:	18" Armored flex (24" & 36" Options)

ACCURACY (BFSL): Hysteresis, Non-Linearity & Repeatability @ +70 °F)	
Standard:	Pressure: ±0.2% FSO (BFSL), ±0.10% FSO available
	Temperature: ±3.0% FSO, ±1.0% FSO optional

Calibration:	NIST Traceable Cert
Workmanship:	IPC-A-610 Soldering
Quality System:	ISO 9100

Options may affect specifications. Please consult factory for your specific needs.

MECHANICAL	
Process Connection:	AS930-4 pressure port
Electrical Connection:	PTIH-10-6P standard, options available
Probe Length:	1" From port end (optional lengths and ports available)
Proof Pressure:	1.5X or 22.5K Max whichever is less (May affect Probe size)
Burst Pressure:	2X-5X, range dependent
Approximate Weight:	8 oz (0.2 kg)

PRESSURE RANGES

0 to 150 thru 0 to 15K PSIA, PSIG, or PSISG options (10 thru 1,034 BAR)

PRESSURE TRANSMITTER THERMAL SPECIFICATIONS		
Operating Range:	-65°F to +350 °F (-54 °C to +177 °C)	
Operating Ambient:	-65°F to +250 °F (-54 °C to +121 °C)	
Compensated Range:	+70 °F to +350 °F (+21.1 °C to +177 °C)	
Effect on Zero/Span Pressure Output:	±2.0% FSO/100 °F (Improved to ±1.0% FSO/100 °F Optional)	

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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.