



SUB SEA TEMPERATURE TRANSDUCER

MODEL 7850

FEATURES:

- Depth rated to 30K ft WC (9,144 meters)
- -100 °F to +392 °F (-73 °C to +200 °C) standard medium
- High accuracy temperature output up to 1% FSO
- Compact, sea water rated design
- Up to 0.5 second temperature response time
- 100 Ω platinum RTD

APPLICATIONS:

- Military and commercial ROV's
- Subsea oil and gas
- Naval exploration
- Ground and engine testing

PRODUCT OVERVIEW:

The Model 7850 from GP:50 is a rugged, sub-sea temperature transducer, tested to 30,000 FT sea water. The highly corrosion resistant design meets the tough environmental challenges of offshore oil and gas, Naval and ROV applications.



Model 7850
Sub Sea Temperature Transducer

FIELD OPTIONS:

- 0 to 5 Vdc, 0 to 10 Vdc or 4-20 mA output
- RS232, RS485 and Can protocols available
- Inconel, 316L or Hastelloy wetted parts
- Wide selection of subsea rated electrical and process connections
- Custom temperature probe lengths
- 100 or 1,000 Ω platinum RTD, J or K type thermocouple

GP:50 MODEL 7850

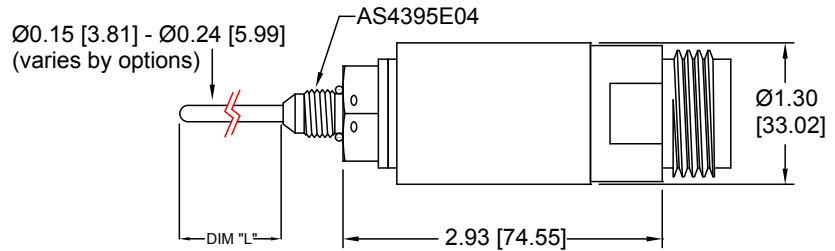
DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	VDC	4-20mA
A/1	+EXC	+EXC/SIG
B/2	+SIG	N/C
C/3	-SIG	N/C
D/4	-EXC	-EXC/SIG
E/5	N/C	N/C
F/6	N/C	N/C

L = 0.50 TO 7.00 INCH PROBE LENGTH



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> • Output Signal: 0 to 5 Vdc, 0 to 10 Vdc (isolated or non-isolated) and 4-20 mA • Supply Voltage: 18 to 36 Vdc • Temperature Output: 100 Ω 2 wire platinum RTD standard, 1,000 Ω 2 wire platinum RTD optional • Response Time: <2 sec, 0.5 sec optional • Circuit Protection: Designed to meet *MIL-STD-461/462 EMI/RFI, some options will affect EMI/RFI rating • Connection: XSJJ-2-BCR (Seacon 2-pin) standard, options available 	<ul style="list-style-type: none"> • Process connection: AS4395E04 pressure port • O-Ring: Buna-N (Nitrile) is standard. For expanded temp ranges -65 °F to 350 °F Fluorosilicone is standard. • Probe Length: 1" From port end (custom lengths available)
MATERIALS OF CONSTRUCTION <ul style="list-style-type: none"> • Probe: 316 stainless steel (Inconel, Hastelloy and Monel available) • Housing: 316 stainless steel 	TEMPERATURE RANGES -100 °F to +392 °F (-73 °C to +200 °C)
ACCURACY Static Accuracy: ±3% FSO, ±1% optional	SYSTEM PRESSURE Up to 2000 PSI (138 BAR) (Optional 0-10,000 psi available)
	OPTIONAL <ul style="list-style-type: none"> • Workmanship: J-001/NASA 8739.3 standard • Quality System: ISO 9001:2008

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

**Standard configurations shown.
Please consult factory for other options.**

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.

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Tel: +1.716.773.9300 Fax: +1.716.773.5019 Email: sales@gp50.com Web: www.gp50.com

