



SUB SEA TEMPERATURE TRANSDUCER

MODEL 7850



Model 7850
Sub Sea Temperature Transducer

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.

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

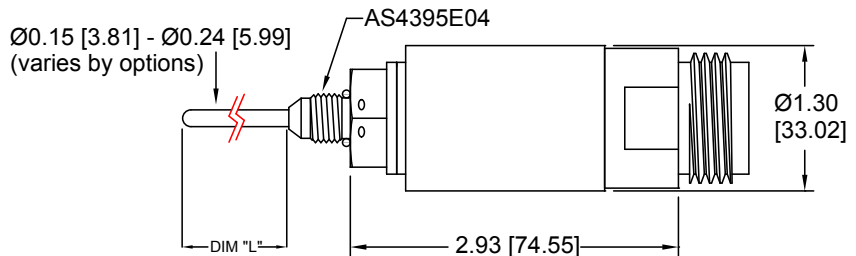
DIMENSIONAL DRAWING

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 <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 	MECHANICAL <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 <p>-100 °F to +392 °F (-73 °C to +200 °C)</p>
ACCURACY <p>Static Accuracy: $\pm 3\%$ FSO, $\pm 1\%$ optional</p>	SYSTEM PRESSURE <p>Up to 2000 PSI (138 BAR) (Optional 0-10,000 psi available)</p>
	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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