

## WELLHEAD SUBSEA PRESSURE & TEMPERATURE TRANSMITTER

### MODEL 7500-9000

#### FEATURES:

- Provides both pressure and temperature outputs
- API flanged process connections up to 4-1/16"
- Seawater submersible to 30K ft (9,144 M)
- $\pm 0.20\%$  FSO accuracy
- NIST traceability and calibration
- Optional HART communications protocol

#### APPLICATIONS:

- BOP controls
- Subsea wellhead & riser controls
- Subsea lubricator systems
- Offshore oil platforms

#### PRODUCT OVERVIEW:

The Model 7500-9000 Series from GP:50 is a high-accuracy pressure and temperature transmitter, offering more than 15 years of field-proven pedigree within subsea wellhead applications. The Series features a robust design with all stainless steel housings and wetted parts, full seawater submersibility to 30K ft (9,144 M) and an API flanged process connection. An optional redundant sensor provides backup pressure and temperature outputs, in the case of prime element failures or cabling issues. Optional HART communication protocols are available for remote measurements.

#### FIELD OPTIONS:

- Redundant sensors and outputs
- Inconel or Hastelloy wetted material
- Subsea rated electrical connectors
- API rated flanges from 2-1/6 to 4-1/16"
- HART communications protocol



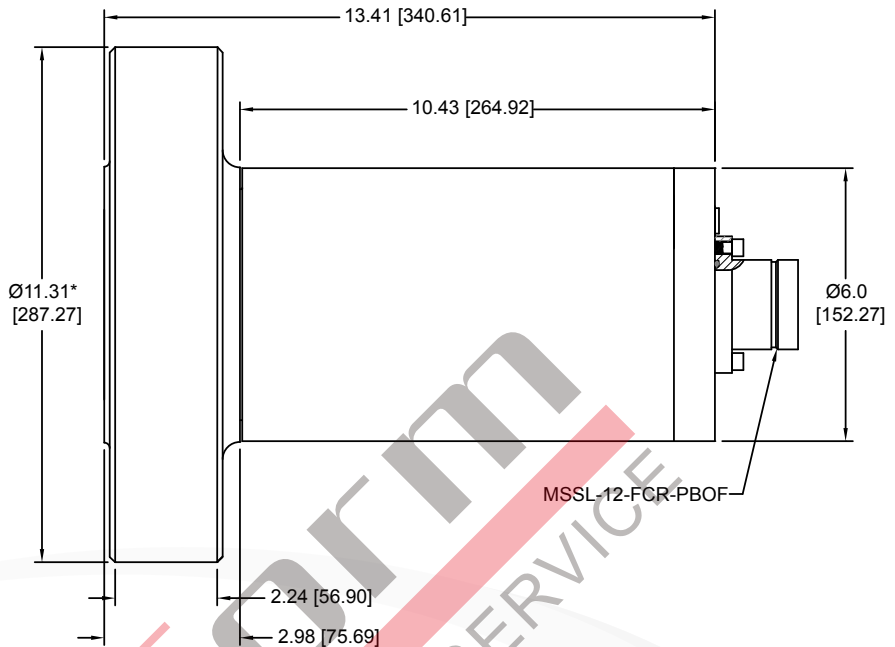
Model 7500-9000  
Wellhead Subsea  
Pressure & Temperature Transmitter

# GP:50 MODEL 7500-9000

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING		
PIN	MODEL 7500-9000	DESCRIPTION
1	+EXC/SIG	PRESSURE & TEMPERATURE
2	-EXC/SIG	4-20mA dc/HART, PRESSURE LOOP
8	-EXC/SIG	4-20mA dc/HART, TEMPERATURE LOOP
3,4,5,6,7,9,10,11,12	N/C	N/A



\* VARIES BY FLANGE TYPE

## REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> <li><b>Excitation Voltage:</b> 12 to 36 Vdc 18 to 36 Vdc for HART communication (250 Ω load required)</li> <li><b>Output Signal:</b> 4-20 mA both pressure and temperature HART optional</li> <li><b>Zero Balance:</b> ±0.5% FSO pressure and temperature</li> <li><b>Span:</b> ±0.5% FSO pressure and temperature</li> <li><b>Stability:</b> ±0.5% FSO/year</li> <li><b>Connection:</b> MSSL-12-FCR-PBOF</li> </ul>	<ul style="list-style-type: none"> <li><b>Proof Pressure:</b> 1.5X pressure range</li> <li><b>Burst Pressure:</b> 2.5X pressure range</li> <li><b>API Flange:</b> 2-1/16" thru 4-1/16" Flush or extended nose versions</li> </ul>
<b>MATERIALS OF CONSTRUCTION</b> <ul style="list-style-type: none"> <li><b>Wetted Parts:</b> 718 Inconel &amp; 4130 (optional Inconel or Hastelloy inlay)</li> </ul>	<b>PRESSURE RANGES</b> 0 to 5K thru 0 to 25K PSI (345 thru 1,724 BAR)
<b>STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY &amp; REPEATABILITY @ +70 °F)</b> ±0.2% FSO (optional ±0.1% FSO)	<b>THERMAL SPECIFICATION</b> <ul style="list-style-type: none"> <li><b>Compensated:</b> +32 °F to +392 °F (0 °C up to +200 °C)</li> <li><b>Operating:</b> Electronics: +15 °F to +185 °F (-10 °C to +85 °C) HART: +15 °F to +160 °F (-10 °C to +70 °C)</li> <li><b>Process:</b> +15 °F to +392 °F (-10 °C to +200 °C)</li> <li><b>Effect on Zero/Span:</b> ±0.5% FSO per CTR</li> </ul>
	<b>OPTIONAL VARIATIONS</b> <ul style="list-style-type: none"> <li>Consult factory</li> </ul>

**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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