

# Hispec <sup>®</sup> HI5000

Downhole Pressure Transmitter

EST RECTITORONILLO

0-15 000



- NACE certified materials
- Silicon-on-sapphire sensor technology for outstanding stability
- High temperature up to 392 °F (200°C)
- High pressures up to 29,000 psi (2000 bar)
- All-welded and sealed construction for use in harsh and corrosive environments







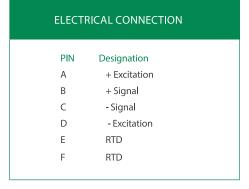
#### Description

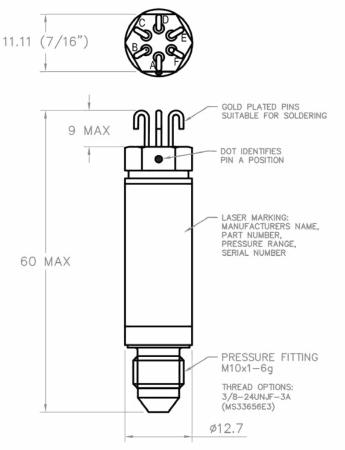
The HI5000 transmitter, for downhole applications, is highly compact with a maximum length of 58mm.

The tough, corrosion-resistant design, using NACE certified materials, makes installation easy in challenging environments. The sensor is designed to withstand high shock and vibration inputs in high temperature applications which require accuracy, stability and long term performance of downhole pressure monitoring.

## Dimensions (in mm)







### Hispec HI5000 Downhole Pressure Transmitter



#### **Technical Data**

Туре	HI5000		
Sensor Technology:	Silicon-on-Sapphire		
Pressure Range:	See Table 1		
Proof Pressure:	See Table 1		
Burst Pressure:	See Table 1		
Excitation:	3-10 VDC (5 VDC Nominal)		
Input Resistance:	4000Ω ±1000Ω		
Output Resistance:	$4000\Omega\pm1000\Omega$		
Output at zero pressure over the calibrated pressure range:	±8.0 mV/V		
Full scale sensitivity (span) over the calibrated temperature range:	10-20 mV/V Nominal		
Operating Temperature Range:	-40°F to +392°F (-40°C to +200°C)		
Calibrated Temperature Range:	75°F to +356°F (+24°C to +180°C)		
Non-linearity & Hysteresis Combined:	$\pm 0.150\%$ of span maximum (Best Fit Straight Line method)		
Total Error Band (Non-linearity, Hysteresis & Thermal Effects):	$\pm0.20\%$ of span, serial number specific polynomial model P(T,mV) provided for all input pressures and temperatures over the calibration range		
Pressure Media:	Any compatible with NACE approved Titanium grade 5 and BT9 alloys (other materials available. Contact sales)		
Weight:	20g maximum (less than 1 oz.)		
Process Connection Thread:	3/8-24UNJF as per MS33656-E3		
Insulation resistance:	All connections pins together to case: 100 M $\Omega$ minimum at 50 VDC		
Platinum Resistance Temperature Detector (RTD):	$0^{\circ}\text{C}$ , $1000\Omega\pm0.06\%$ to IEC 751 Class A, Alpha = 0.00385 nominal		
Recommended Installation Torque:	125 to 150 in-lb (14-17 Nm)		
Calibration Data:	The calibration certificate supplied with each unit includes the coefficients for a 5th order polynomial calibration model		

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#### Table 1

MODEL NUMBER	PRESSURE RANGE [BARSG]	PROOF PRESSURE	BURST PRESSURE
HI5000-0400	0-400	200%	300%
HI5000-0600	0-600	200%	300%
HI5000-1000	0-1000	150%	200%
HI5000-1500	0-1500	110%	150%

DISCLAIMER: ESITechnology Ltd operates a policy of continuous product development. We reserve the right to change specification without prior notice. All products manufactured by ESITechnology Ltd are calibrated using precision calibration equipment, traceable to national measurement standards.



