

DATASHEET



Product Description

The Oxford ESP Gauge is a reliable field proven system that incorporates the latest in engineering, manufacturing and quality principles to deliver a trusted solution that can be deployed time and again with confidence. Fast data update rates provide downhole visibility, capturing events as they happen, enabling real-time well management and optimization at surface, whilst, high accuracy sensors and high-resolution measurements provide meaningful data for interpretation, analysis and ESP management.

Key Features

- QuickStart
- Variable Speed Telemetry*
- Slimline 3.75" OD
- On-board Diagnostics
- Pressure rating up to 10,000psi

Standard parameters include Pump intake pressure (**Pi**), Pump intake temperature (**Ti**), motor oil or motor winding temperature (**Tm**), two-axis vibration (**Vx**, **Vy**) and current leakage (**Cl**). Optional upgrades include a 2,900psi, 5,800psi or 10,000psi rated sensor to measure Pump Discharge Pressure (**Pd**).

All Oxford ESP gauges feature an on-board diagnostics system (**OBD**) and provide health indicators including signal quality (**Sq**), signal level (**Sl**), gauge current (**Ct**) and packet counter (**Pk**).

Specification**

Parameter	Rating			Accuracy	Resolution	
Intake Pressure	2,900psi	5,800psi	10,000psi	+/-0.1% FS	0.1psi	0.01psi
Intake Temperature	125°C	150°C	175°C	+/-1C	0.01C	
Motor Temperature	300°C			+/-1C	0.01C	
Discharge Pressure	2,900psi	5,800psi	10,000psi	+/-0.1% FS	0.1psi	
Vibration	+/-16g			+/-1% FS	0.001g	
Current Leakage	25mA			+/-0.2% FS	0.01mA	

Material	13Cr stainless steel
Diameter	3.75" [95mm]
Length	26" [655mm]
Weight	42lbs [19Kg]
Top Connection	3.75", 6-hole flange
Bottom Connection	2-3/8" EUE 8 RND Box
Maximum Hanging Weight	25,000lbs [11,000Kg]
Maximum operating pressure(s)	4,350psi; 8,700psi; 10,000psi
Maximum AC operating Voltage	3,000V phase-to-ground [5,000V phase-to-phase]
Insulation test rating	Reverse polarity 5kV DC (max) for 10s. 2.5kV recommended test voltage

* First generation variable speed telemetry. **Specifications are subject to change. Alternative specifications are available upon request.