

# DATASHEET

## Product Description

The Oxford ESP Gauge brings Simplicity, Reliability and Sophistication together into one design that features the very latest in advanced downhole monitoring, onboard diagnostics and health indicators for ultimate downhole visibility and maximum ESP performance.



Whether seeking to acquire pressure & temperature build-up data for well test interpretation purposes or seeking to avoid wellbore deviations that cause premature ESP failure, the advanced features of the Oxford ESP Gauge make it a clear choice for downhole monitoring in challenging well environments.

## Key Features

- QuickStart
- Variable speed telemetry
- Discharge temperature
- Inclination
- Gauge life profiling



Standard parameters include Pump Intake Pressure (**Pi**), Pump Intake Temperature (**Ti**), Motor Oil/Winding Temperature (**Tm**), Three-Axis Vibration (**Vx, Vy, Vz**), Star-Point Voltage (**Vsp**), Current Leakage (**Cl**) and Inclination (**In**). Optional features include dual motor temperature (**Tm2**), Pump Discharge Pressure (**Pd**), Pump Discharge Temperature (**Td**) and Gauge Life Profiling.

## Specification

Primary Parameters	Rating			Accuracy	Resolution	
	2,900psi	5,800psi	10,000psi		0.1psi	0.01psi
Intake Pressure	2,900psi	5,800psi	10,000psi	+/-0.1% FS	0.1psi	0.01psi
Intake Temperature	125°C	150°C	165°C	+/-1°C	0.01°C	
Motor Temperature	300°C			+/-1°C	0.01°C	
Vibration X-Y-Z	16g			+/-1% FS	0.001g	

Advanced Parameters	Rating		Accuracy	Resolution
	5,800psi	10,000psi		
Discharge Pressure	5,800psi	10,000psi	+/-0.1% FS	0.1psi
Discharge Temperature	150°C		+/-1°C	0.01°C
Inclination	180°		+/-0.1% FS	1°
Dual Motor Temperature	300°C		+/-1°C	0.01°C

Health Indicators	Rating	Accuracy	Resolution
Star-Point Voltage	1000V	+/-2% FS	1V
Signal Quality	100%	Absolute	0.01%

# ESP SYSTEMS

## Oxford ESP Gauge



Physical properties		
Material	13Cr stainless steel	
Diameter	3.75"	95mm
Length	40"	1,000mm
Weight	73lbs	33Kg
Top Connection	3.75" (6-hole flange)	4.50" (6-hole flange)
Bottom Connection	2-3/8" EUE 8 RND Box	
Maximum Hanging Weight	25,000lbs	11,000Kg
Calibrated range	2,900psi; 5,800psi; 10,000psi	125°C; 150°C; 165°C
Maximum AC operating Voltage	3,000V phase to ground	5,000V phase-to-phase
Insulation test rating	Reverse polarity to 5kV DC (max) for 10 seconds. Recommended 2.5kV	

Specifications are subject to change. Alternative specifications are available upon request.