smartGAUGE|DeepSense

Downhole ESP Gauge

OILDYNAMICS
Lifting Energy

The Oil Dynamics 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 functionality
- Variable-Speed Telemetry*
- Slimline 3.75" OD
- Integrated OBD system
- Rated up to 10,000 psi



Oil Dynamics ESP gauges deliver a comprehensive suite of standard measurements, including pump intake pressure (Pi), intake temperature (Ti), motor oil or winding temperature (Tm), dual-axis vibration (Vx, Vy), and current leakage (Cl).

For enhanced monitoring, optional high-pressure sensors rated at 2,900 psi, 5,800 psi, or 10,000 psi can be added to measure pump discharge pressure (Pd) or motor oil pressure (Pm).

Every Oil Dynamics gauge integrates an advanced On-Board Diagnostics (OBD) system, providing key health indicators such as signal quality (Sq), signal level (Sl), gauge current (Ct), and packet counter (Pk).

* First generation variable speed telemetry.

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Ratings and Features**

PARAMETER	Rating			Accuracy	Resolution	
INTAKE PRESSURE	2,900psi	5,800psi	10,000psi	0.01psi	+/-0.1% FS	0.1psi
INTAKE TEMPERATURE	125°C	150°C	175°C	+/-1°C	0.01°C	
MOTOR TEMPERATURE		300°C		+/-1°C	0.01°C	
DISCHARGE PRESSURE	2,900psi	5,800psi	10,000psi	+/-0.1% FS	0.1psi	
MOTOR OIL 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

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

Smart Monitoring. Proven Performance.

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