

# DATASHEET



Permanent Gauge with clamp-on gauge carrier and ported collar

### Product Description

The Oxford Permanent Gauge brings Simplicity, Reliability and Sophistication together into one design that features the very latest in advanced downhole monitoring technology, providing operators with access to valuable downhole data to enhance field production through controlled water injection management and artificial lift optimization.

- Temperature rating up to 329°F
- Compatible with all sizes and types of tubing strings
- Pressure rating up to 10,000psi
- Fully welded design with pressure testable gauge head

The Oxford Permanent Gauge is available with single or dual pressure measurement. The single pressure gauge offers the choice of measuring Pressure and Temperature in the Annulus OR the Tubing (**P1, T1**). The dual pressure gauge provides Pressure and Temperature measurements in the Annulus AND the Tubing (**P1, T1, P2, T2**). All Oxford Permanent Gauges provide tri-axis vibration (**Vx, Vy, Vz**) and peak vibration (**Vpk**).

The Oxford Permanent Gauge is designed to perform reliably in a wide range of downhole environments and was independently tested at a UKAS accredited environmental test laboratory with testing performed in accordance with the AWES 'Recommended Practice for the Qualification of Downhole Instrumentation/Sensors'.

The gauge is typically held in a carrier which is clamped on to the outside of the production tubing where it measures the annulus and/or tubing pressure and temperature. An instrument cable is connected to the top of the gauge and is normally banded to the tubing and protected across the raised faces of the tubing joints and collars by a cross-coupling cable protector. A gauge cable-head assembly enables the gauge connection to be pressure tested prior to deployment in the well.

### Specification

Parameter	Rating				Accuracy	Resolution	
Pressure	1,450psi	2,900psi	5,800psi	10,000psi	+/-0.1% FS	0.1psi	0.01psi
Temperature	100°C	125°C	150°C	165°C	+/-1% FS	0.01°C	
Vibration	+/-16g				+/-1% FS	0.001g	
Diameter	1.00" (25.4mm)						
Material	Body: 17-4 PH				Connector: SS316		
Supply	Voltage: 24 VDC +/-10%				Current: 5 to 8mA		
Data Signal	Continuous						
Single Pressure Gauge	Length: 18.11" (460mm)				Weight: 1.87lbs (0.85Kg)		
Dual Pressure Gauge	Length: 21.65" (550mm)				Weight: 2.20lbs (1Kg)		

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