

Triton[®] Gauges

DOWNHOLE GAUGE PROVIDES SUPERIOR ASSET SURVEILLANCE AND DATA ACQUISITION

OVERVIEW

Reservoir life cycles can be improved by using the Triton downhole gauge, in conjunction with proactive data evaluation philosophies, to prevent or reduce formation damage caused by over-production. The gauge provides superior asset surveillance capability, protection, and data acquisition and can provide data to identify water or gas break-through by monitoring intake fluid temperature and pressure.

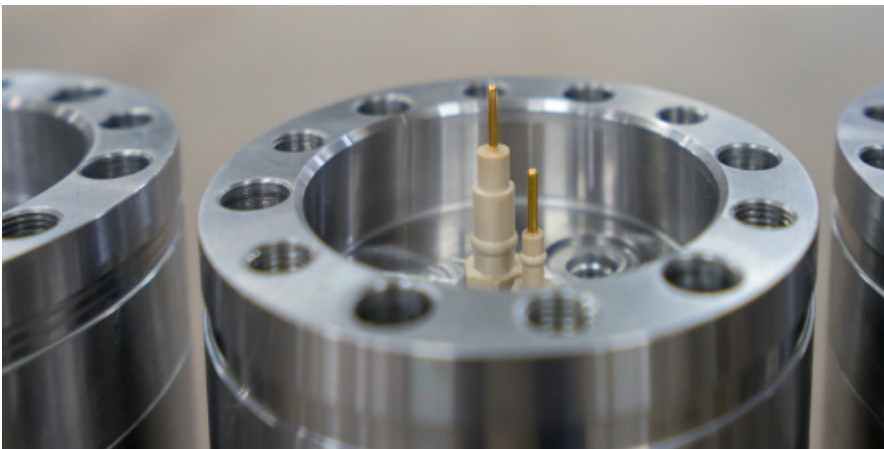
Triton[®] 7 channel (T7-125 or T7-150) or Triton 8 channel (T8-150) gauge can be used with a variety of electric submersible pump (ESP) motors using specially-designed bolt-on adapters.

The gauge uses a waterproof Wye-point connection. Telemetry to the surface is accomplished by superimposing DC signals on a traditional 5 KV ESP power cable. At the surface, these signals are translated into usable data values by the Triton Surface Interface (TSI) and are displayed on the Summit ESP[®] ACS[®]-15 variable speed drive (VSD) operator interface.

Acquired data is transmitted via Modbus protocol or SCADA to a surveillance center through the Summit ESP well surveillance and remote control service. Analysis can then be performed by our team of petroleum engineers to ensure continuous operation and optimized production.

FEATURES AND BENEFITS

- » Sealed electronics maintain communication if well fluid penetrates ESP motor or seal assembly
- » Industry-leading transducer accuracy increases reliability of gauge operation, reducing chance of damage
- » Downhole data displayed directly on VSD interface provides better data reliability and accessibility
- » Remote access via SCADA and Summit ESP[®] monitoring service improves decision-making capability based upon current information
- » Adaptability for RS-485, Ethernet, AO, and DI competitive Modbus maps
- » Easy integration into Summit ESP VSDs and switchboards
- » Compatible with all ESP OEM providers
- » Slimhole compatible – 3-3/4" (9.5 cm) O.D.
- » Optional stainless steel metallurgy
- » Industry-leading 20,000 pound connection weight



Technical Specifications

	T7 125°C (257°F)	T7 150°C (302°F)	T8 150°C (302°F)	Operating Range	Accuracy	Resolution
Intake Pressure	x	x	x	Up to 5,800 psi (Up to 400 bar)	0.3% FS	0.1 psi
Discharge Pressure			x	Up to 5,500 psi (Up to 380 bar)	0.3% FS	0.1 psi
Intake Temperature	x	x	x	150°C (302°F)	1% FS	0.1°C
Motor Temperature	x	x	x	250°C (482°F)	1% FS	0.1°C
Gauge Input Voltage	x	x	x	55 – 130 VDC	N/A	N/A
Current Leakage	x	x	x	0 – 25 mA	±0.1 mA	0.1 mA
Vibration X	x	x	x	±6 g P-P	1% FS	0.1 g
Vibration Y	x	x	x	±6 g P-P	1% FS	0.1 g
Metallurgy	Carbon Steel	Stainless Steel or Carbon Steel	Stainless Steel			

Discharge Kits

Motor Equipment	Production Tubing
375 Series	2-3/8" (6 cm) 8 rd EUE
456 Series	2-7/8" (7.3 cm) 8 rd EUE
562 Series	2-7/8" (7.3 cm) 8 rd EUE
562 Series	3-1/2" (8.9 cm) 8 rd EUE

Mechanical Characteristics

Length	20-1/2" (52 cm)*
O.D.	3-3/4" (9.5 cm)
Weight	<30 lbs. (13.6 kg)
Connection Weight	20,000 lbs (9,702 kg)
Connection Thread	2-3/8" (6 cm) 8 Rd EUE

*Length without motor adapter

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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