

PROTORQUE

REAL-TIME DRILLING DATA (TTS)

The TTS Sub is installed onto the top drive and designed to measure torque, tension, RPM, pressure, and 3D acceleration directly at the drill string. This eliminates algorithm, downhole survey, hydraulic/electronic and shear friction data errors. The sub delivers real-time data and improves reactive assessment of the drilling conditions.

TOTAL RIG SOLUTIONS™

- EQUIPPED TO MEASURE UP TO NINE SEPARATE SENSORY METHODS



CANADA
780.933.0404

UNITED STATES
713.300.5216

PROTORQUETECH.COM



PROTORQUE REAL-TIME DRILLING DATA (TTS)



SPECIFICATIONS

- **THREAD ORIENTATION:** Pin Up – Box down or Box Up – Pin Down
- **TORQUE HOOK LOAD:** 40,000 – 80,000 ft/lbs (54,200 – 115,250 Nm)
- **TORQUE/TENSION:** 350 – 690 ton
- **ACCURACY:** $\pm 0.5\%$ of Full Scale / $\pm 1\%$ of Full Scale
- **TURNS RESOLUTION:** ± 0.001 Turn Resolution, CW and CCW. 40 RPM Max
- **TEMPERATURE RANGE:** -40°C to 65°C (149°F)
- **BATTERY LIFE:** 480 hours at 25°C (77°F) (Approx. 20% lower at 0°C [32°F])
- **WIRELESS TRANSMISSION:** 2.4 GHz, Direct Sequence Spread Spectrum / Line of Sight: Range 150 ft
- **ENCLOSURE RATING:** Type 4X, Watertight
- **HAZARDOUS AREA:** North America Class 1, Division 1 Groups C & D, T4 ATEX: Zone 1, IIB, T4
- **DESIGN:** Designed to API 8C Certification
- **WEIGHT (APPROX.):** 184 – 238 lbs (84 – 108 kg)
- **LENGTH:** 24 – 30" (609.6 – 762 mm)

CANADA
780.933.0404

UNITED STATES
713.300.5216

PROTORQUETECH.COM

