

# PROTORQUE COMPUTER ANALYZED TORQUE MONITORING (CATM) – TOP DRIVE

The Torque Sub monitors the top drive output (Torque, RPM, and Hookload) and displays a real-time graphical representation of the data delivered. From this we develop a torque vs turns & time graph, exactly like the graph that would be obtained from a power tong using a traditional CATM system. This allows us to monitor and uphold the same integrity while making up tubular connections with a CRT.

**TOTAL RIG SOLUTIONS™**

- ABILITY TO RECORD TURNS WITHOUT AN EXTERNAL ENCODER ASSEMBLY



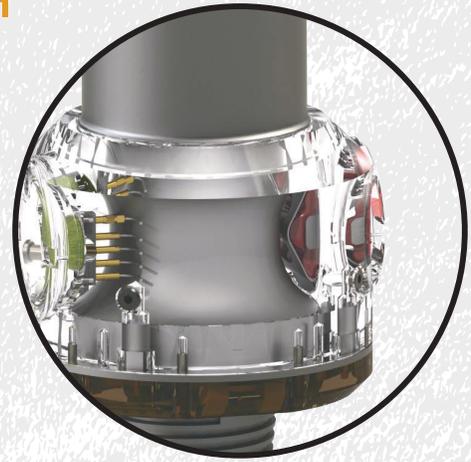
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## SPECIFICATIONS

- **TORQUE CAPACITY:** -50,000 to +50,000 ft/lbs (67,800 Nm)
- **HOIST CAPACITY:** 200,000 – 1,000,000 lbs (271,000 – 453,600 kg) tension with 2.25 safety factor
- **SAMPLING RATE:** Dynamic, up to 480 samples/second
- **TORQUE/HOOK LOAD ACCURACY:** 1% of Full Scale
- **TURNS RESOLUTION:** 0.001 turns
- **TEMPERATURE RANGE:** -40°C to 70°C (158°F)
- **BATTERY LIFE:** 30 days of continuous use
- **TRANSMISSION:** 2.4 GHz approved US, Canada and Europe
- **TRANSMISSION TYPE:** Line of sight
- **ENCLOSURE RATING:** Type 4X and IP 66
- **HAZARDOUS AREA CLASSIFICATION:** Class 1, Division 1, Zone 1, Group IIB, T4 Protection Type: EX Flameproof Enclosure (d) Certification: CSA/UL/ATEX/IECEX
- **TORQUE SUB:** Designed to API 8C Specifications
- **THREADS:** Manufactured to API 7 specifications
- **WEIGHT:** Approximately 350 lbs (160 kg)
- **LENGTH:** Standard shoulder to shoulder 21.6" (18.6" is the minimum shoulder to shoulder length if there is zero recut allowance)

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### FEATURES:

Long battery Life

Highest dynamic sampling rate of all manufacturers

Infrared (IR) turns counter built into the system, no external turns counters needed