TORQ-TEK™ ZI



OCTG Analysis System

The Torq-Tek™ ZI is a dual certified, ATEX & CSA-US Ex nA and AExnA Class 1, Zone 1 non-purged state-of-the-art OCTG Analysis system. The Torq-Tek™ system and all accessories are certified for: Zone 1 rig-floor operations.

Technical Specifications

- Windows bases user interface
- Ex II 2 (2) (1) G. CE marked
- Ex nA & AEx nA II
- 1/1000th of a turn measurement
- NEMA4X/IP66 waterproofing
- - 40° C to + 60° C op. temperature
- Main unit measures 15" x 11" x 4"
- Main unit weight < 33 lbs
- Touch screen as standard
- · Universal 110-220V AC power cord

Software Features

- · Windows bases user interface
- Torque Vs Turns
- VAM Shoulder Slope Detection
- Delta Turn Parameters
- · Premium, API & Break-out modes
- Pressure testing mode (Hydro-test or Gas-test)
- · Onshore reports package hard or soft copy

Torq-Tek™ reduces the potential cost of possible remedial steps by making sure the correct torque is applied, and that faulty connections are immediately detected. Each make-up is viewed in real-time color graphics as it takes place. Coupled with the ability to analyze, control and record the make-up of premium and API tubular connections.

Torq-Tek's software is the most advanced available today, offering power tong, bucking unit, power swivel and Top Drive options as standard. Torq-Tek™ ZI meets or exceeds all of the requirements for Gulf of Mexico and Global operations.



TORQ-SUB



Wireless Monitoring Sensor

Designed to work with Torq-Tek unit, Torq-Sub delivers accurate and reliable make-up torque and string working parameters, building well integrity.

Torq-Sub Wireless Sensor

Used in combination with any CRT, the wireless sensor records torque, turns and hook load for connection makeup or reaming operations. The intrinsically safe transmitter allows for monitoring and sending real time data through wireless communication to the Torq-Tek unit, eliminating the use of cables.

All the data transmitted wirelessly to the remote antenna is processed and visualized though the data Computer.

Standard Features:

- Designed to be installed on any Top Drive and CRT.
- Continuous logging if required for reaming or drilling operations.
- Higher accuracy during connection make-up.
- Two independent electronic wireless transmitters ensure a backup is always in place.
- High-capacity thread connections.





Specifications		
Top Connection	4-1/2" NC50 DS Box up	6-5/8" DS Reg Box up
Bottom Connection	6-5/8" DS Reg Pin down	6-5/8" DS Reg Pin down
Maximum Torque	80K ft-lbs (Calibrated to 50K ft-lbs)	
Maximum Hoisting	500 ton	
Torque/Tension	Under ±1% of full scale	
Battery Life	14 days under normal operation	
Turns Resolution:	1,000 pulses per Revolution	
Ambient Range	-20°C to +60°C	
Design Standard	API 8C	
Compliance	ATEX Zone 1 / IECEX	
Length (ft.)	32-1/8"	
Total Weight (lbs.	417 lb approx.	