

DigiTrak® F5® TensiTrak®

Pullback and Pressure Monitoring System



The DigiTrak® F5® TensiTrak® Pullback and Pressure Monitoring System provides critical installation data to HDD operators, allowing real-time monitoring of product pull force and downhole mud pressure without a wire.

Real-time pull force/tension monitoring can prevent damage to the product and costly reinstallation. Knowledge of the downhole mud pressure can assist in preventing frac-outs (inadvertent fluid returns) or, even worse, road buckling.

The TensiTrak® unit, installed between the reamer and the product, transmits data to an F5® receiver. The TensiTrak® real-time pull force and mud pressure data are stored in the receiver.

This data can be uploaded via Bluetooth to a PC for analysis and archiving. The TensiTrak® unit itself stores and updates the maximum pull force value to ensure that this value always gets recorded, even if the receiver is out of range for a portion of the pullback.



- Real-time product pull force and downhole mud pressure readings displayed at receiver and drill
- Strong signal for overcoming interference without using a wire
- Accurate tracking of installation depth and location
- Data can be downloaded and plotted on a PC

TensiTrak® Specifications

Model number.....	TT5
Power source.....	3 D-cell batteries or DCI SuperCell™ battery with adapter
Battery life.....	30 hr (approx.)
Outer diameter.....	5.5 in. (13.97 cm)
Length.....	19.63 in. (49.86 cm)
Pulling eye diameter.....	1.82 in. (4.62 cm)
Center-to-center distance between eyes.....	16.13 in. (40.97 cm)
Trackable range.....	60 ft (18.3 m)
Operating temperature	35.6–104° F (2–40° C)

Absolute max. mud pressure	127 psi (876 kPa)
Maximum pull force	100,000 lb (445 kN)
Mud pressure accuracy*:	
0–75 psi (0–517 kPa)	±3 psi (21 kPa)
75–127 psi (517–876 kPa)	±10%
Tension monitor accuracy**:	
35.6–41° F (2–5° C).....	±5% full scale or ±5000 lb (22.5 kN)
41–104° F (5–40° C)	
0–10,000 lb (44.5 kN)	±1000 lb (4.5 kN)
10,000–20,000 lb (89 kN)	±2000 lb (9 kN)
20,000–100,000 lb (445 kN).....	±3000 lb (13.5 kN)

*Pressure readings are in 1 psi (6.9 kPa) increments.
 **Tension readings are in 30 lb (133 N) increments.



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