Head Tension Unit (HTU)

The Head Tension Unit (HTU) is normally positioned between the cable head and main logging tools to measure downhole tension and compression. These can be used to monitor potential weak points and logging cable breakage or tool string damage.

Description

During logging operations with coiled tubing or with wireline in bad hole conditions, it is essential to have the ability to detect and measure tension to avoid breaking the weak point or logging cable, or to measure compression to avoid damage to the logging tools. Running an HTU in the tool string provides the logging engineer with early indications of over-pull, tool drag, stuck tools, tool compression, and irregular or yo-yo tool movement.

Features

- Early indication of over-pull, key seating, and tool sticking
- Fully combinable with all Ultrawire* tools
- Applicable for surface readout logging operations
- Suitable for all well deviations
- Measurement range of standard tool -400 kg to +1200 kg

Specifications

Temperature rating	350°F (177°C)
Pressure rating	15,000 psi (103.4 MPa)
Tool diameter	$1^{11}/_{16}$ in. (43 mm)
Tool length	23.2 in. (590 mm)
Tool weight	11.6 lb (5.25 kg)
Toolbus	Ultrawire*
Current consumption	19 mA
Sensor measure point	14.1 in. (358 mm)
Resolution	0.07 lb (0.032 kg)
Accuracy	+/-15 lb (6.82 kg)
Measurement range	-880 to +2,645 lb (-400 to +1,200 kg)
Materials	Corrosion resistant throughout

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