

Head Tension Unit (HTU)

Measures downhole tension and compression

Applications

- Indicates when the wireline load is approaching the weak point breaking load
- Detect friction between the surface and the downhole tools
- Detect key seating.
- Monitors toolstring sticking
- Monitors compression in coiled tubing or tractor operations in highly deviated wells.

Features and Benefits

- Combinable with other Sondex **Ultrawire™ logging tools**
- 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

The Sondex **Head Tension/Compression Unit (HTU009)** detects longitudinal force in the toolstring that may be either tensile or compressive.

The HTU009 is run below the Ultrawire controller (HTU/XTU) and measures tension up to 1200kg and compression up to 400kg. When either using coiled tubing or during tractor operations, the ability to measure compression can help to avoid toolstring damage. This function is most useful when an obstruction is encountered.

The HTU009 operates as part of an **Ultrawire™ toolstring** and can be used in both wireline and memory operation, dependant

on the system controller (e.g. XTU). Power for the tool is also supplied by the system controller.

The HTU009 can be used at any position in the toolstring. It is situated in the toolstring below the Ultrawire Controller, but is intended to be placed as high up as possible.



Specifications	
	HTU009
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. (589 mm)
Tool weight	11.6 lb (5.26 kg)
Toolbus	Ultrawire production logging tool
Current Consumption	19 mA
Sensor measure point	14.1 in. (358 mm)
Resolution	1 lb (0.45 kg)
Accuracy	+/- 15 lb (6.81 kg)
Measurement Range	-881 to +2,645 lb (-400 to +1,200 kg)
Materials	Corrosion resistant throughout