

The Downhole Telemetry Tool allows our system to maintain a bi-directional high speed communication between the surface acquisition system (Warrior from SDS) and all the downhole sensors connected in the tool string over a conventional or special single conductor wireline.

DESCRIPTION

This tool has a bi-directional, high-speed, digital communications telemetry bus that allows the operator to log, record and view downhole data from all sensors in real time over conventional, single conductor wire-line. A unique feature of the bi-directional communication link is that it allows the operator to query each smart sensor at any time, for key configuration parameters such as its serial number and position in the tool string. The telemetry is easily decoded by Scientific Data Systems' Warrior hardware and software to allow the data transmitted over the wireline to be recorded and manipulated. The Warrior software is used for all the setup and calibration of each one of the required sensors.

Each one of the tools in the tool string has a single conductor passing through them, carrying power from the telemetry portion of this tool and bringing data from the sensors.

APPLICATIONS

- Data Acquisition
- Bi Directional digital communications link over conventional single conductor wireline
- Tool String Configuration
- Built In Accelerometer sensor to measure tool movement and inclination

SPECIFICATIONS

DHT – Down Hole Telemetry	
General Specifications	
Maximum Pressure	15,000 PSI (100 MPa)
Maximum Temperature	350 °F (177 °C)
Diameter	1-3/8 Inches (35 mm)
Length	25.32 Inches (64.31 cm)
Maximum Logging Speed	18 Ft./min
Hardware Features	
Sample Rate	10 samples / sec
Accelerometer Range	± 5 g
Accelerometer Resolution	0.01 g
Accelerometer Accuracy	±0.1 g
Type of Communication	RS232 / USB
Voltage	125 – 175 VDC
Maximum Current	100 mA
Manufacturer	Spartek Systems