

Ultrawire™ Memory Tool (UMT)

The Ultrawire™ Memory Tool (UMT) is designed to acquire and store data from a string of logging sensors without using electric line. The tool logs data from any combination of downhole instrumentation operating on Ultrawire™ telemetry.

Description

The UMT enables the use of downhole instrumentation without an electric wireline. Slickline, coil tubing or PCL (pipe conveyed logging) are common conveyances for memory tools. A laptop, Sondex interface kit (MIPO06) and UWMemlog software are required to program the UMT tool with a profile defining the sample rates and time periods at which tool output will be recorded. Sample rates are variable for each logging tool and start and stop times are also programmable. Downhole, the UMT controls the tool string and stores logged data against time in non-volatile flash memory. When the toolstring is returned to surface, the UMT is downloaded to the laptop. The UMT data is merged with depth-time data from a Sondex Depth-Time Recorder (DTR) before processing to industry standard depth based log files. The UMT is powered by a separate, high capacity Lithium battery pack in a battery holder (MBH).

Features

- Logging without electric wireline.
- Production and Injection well profiling.
- Casing Inspection surveys.
- Radial Cement Bond logging.
- Operates with any combination of Ultrawire™ tools.

Specification

Model	UMT003	UMT004
Temperature rating	350°F (177°C)	
Pressure rating	15000psi (103.4MPa)	
Tool diameter	1 ¹¹ / ₁₆ in (43mm)	1 ⁷ / ₈ in (35mm)
Tool length	25.66in (652mm)	25.0in (635mm)
Tool weight	10.6lb (4.8kg)	9.5lb (4.32kg)
Toolbus	Ultrawire™	
Current consumption	25mA (5mA on standby)	
Supply voltage	+13.5 to +20VDC	
Memory	128MB	
Sample rates	20ms to days (in 20ms increments)	
Tool download time	4MB/min typical (computer dependent)	
Materials	Corrosion resistant throughout	

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