

## 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

GE's Ultrawire Memory Tool enables the operation of downhole instrumentation without an electric wireline. Slickline, Coil Tubing or PCL (pipe conveyed logging) are common conveyances for memory tools.

The UMT tool provides a Dual Memory feature, for complete back-up, such that in the unlikely event of one Memory chip failing, the data has been written a second time and may still be retrieved. A laptop, interface cable (UMU001) and UWMemlog software (v2.20 or higher) are required to program the UMT tool with a profile defining the data 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, allowing power and memory to be preserved. 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 Depth-Time Recorder (DTR) before processing to industry standard depth-based log files. GE's Ultrawire Memory Tool 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
- Well Integrity surveys—casing and cement
- Operates with any combination of Ultrawire Cased Hole tools
- 1 GB memory—configured as 512 MB with 512 MB back up, with option to operate with 1 GB single memory



# Ultrawire Memory Tool (UMT)

Model	UMT007	UMT008
Temperature rating	350°F (177°C)	
Pressure rating	20000 psi (137.9 MPa)	15000 psi (103.4 MPa)
Tool diameter	1-11/16 in. (42.9 mm)	1-3/8 in. (34.9 mm)
Tool length	12.5 in. (317.6 mm)	12.1 in. (307.0 mm)
Tool weight	5.9 lb (2.7 kg)	3.1 lb (1.4 kg)
Toolbus	Ultrawire	
Current consumption	<25 mA (<4 mA standby)	
Supply voltage	+ 12 V DC to +24 V DC	
Memory	1 GB (512 MB Dual Memory)	
Sample rates	20 ms to days (in 20 ms increments)	
Tool download time	50 MB/min typical (computer dependent)	
Materials	Corrosion resistant throughout	

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