

# Ultrawire memory tool

Designed to acquire and store data from a string of logging sensors without using electric line

## Features and Benefits

- Logging without electric wireline
- Production and Injection well profiling
- Well integrity surveys—casing and cement
- Operates with any combination of Cased Hole Ultrawire tools
- 1 GB memory—configured as 512 MB with 512 MB back up, with option to operate with 1 GB single memory

The Sondex **Ultrawire memory tool (UMT)** enables downhole instrumentation to operate without an electric wireline. Slickline, coil tubing or PCL (pipe-conveyed logging) are common conveyances for memory tools. The UMT logs data from any combination of downhole instrumentation operating on Ultrawire telemetry.

The UMT provides a dual-memory feature for complete backup, so if a memory chip ever fails, then the data is already written a second time and can be retrieved. A laptop, interface cable (UMU001), and UWMemlog software (v2.20 or higher) are required to program the UMT 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, enabling 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 tool string 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 the Sondex **memory battery housing (MBH)**.



Specifications	UMT007	UMT008
Temperature rating	350°F (177°C)	
Pressure rating	20,000 psi (137.9 MPa)	15,000 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	