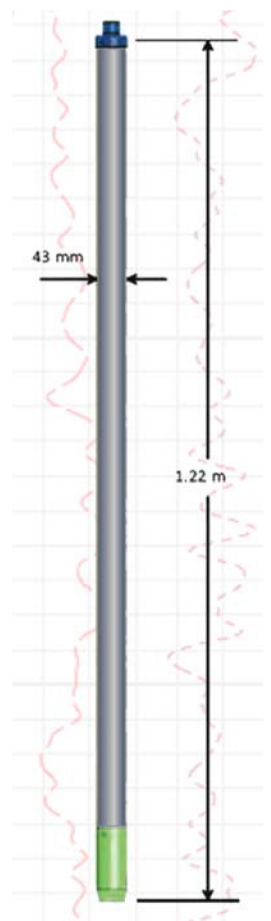# 3102 MEMORY LOGGER (MEMBAT)

The 3102 Memory Logger records data acquired by the connected logging instruments. Sleep time, start time, logging duration, and sample rate are programmed into the logger before tool deployment. The Memory Logger contains a lithium battery which provides power for both the logger and connected tools during recording.   The MEMBAT includes an accelerometer to record shock encountered during deployment/recording.

OPERATING PRINCIPLE

A PC and LWT Readout Box are used to program the MEMBAT and read data from memory after logging. The MEMBAT is connected to the downhole logging instruments and logging parameters programmed. It is then separated from the PC and LWT readout box and deployed downhole with the programmed logging tools. Beginning at the programmed start time, the logging instrument data is recorded to non-volatile memory against a real-time clock.   Logging depth is recorded at the surface versus time by a PC and a Depth Processing Unit connected to the drilling recorder/encoder and hook load sensor. Depth is tracked electronically and monitored stand by stand. Once the depth/time record is merged with memory data, a depth indexed log can be played back, edited, displayed and printed. The onboard axial accelerometer enables analysis of forces on tools during pump-down deployment, logging, and well intervention.

43 mm

1.22 m

SPECIFICATIONS

Weight:	6 kg (13.2 lbs)	Measured Data:	
Maximum Temp:	150 deg C (300 deg F)		Supply Current: mA
Maximum Pressure:	100 MPa (14,000 PSI)		Remaining Battery Capacity : Ah
			Memory Logger Temperature: deg C
Battery Type: High-Temp Lithium			Battery Voltage: mV
Battery Voltage (4 cell): 14.4 V			Z-Axis acceleration: -8g to +8g
Battery Capacity: 24 Ah (60 hours)			
Battery Max Temp: 150 deg C (300 deg F)		Operating voltage: 12-15 VDC	
		Operating current: 15 mA	
Sample Rate:0.1/sec to 1/hr		Memory Size: 64 MB (scalable to 128 MB)	