

Memory Adapter Tool (MAT)

Application

The Memory Adapter Tool (MAT) collects and records digital data from each sensor in a tool string. Unlike the Telemetry Tool (which transmits all data to a surface acquisition system), the memory adapter stores all data within its own, internal memory. A casing collar locator (CCL) is contained in the adapter, but a separate gamma ray is required in a tool string. The MAT tool requires a lithium battery pack in order to operate.

Memory Production Logging (MPL) is done using the MAT Job feature in the Premier Logging Suite. It is used to configure tool settings, upload and download settings and data, and manage information that is obtained from the memory adapter tool. MAT Job performs the following functions:

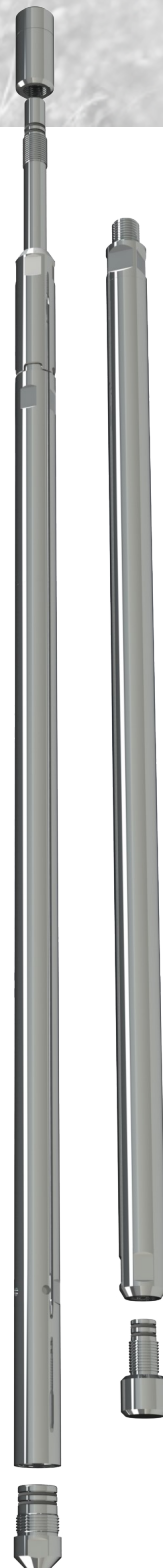
- Allows for configuration of the tool at surface (upload of program table, synchronization of tool and computer clocks, tool erase).
- Sets the program table, including the data acquisition rate.
- Allows tool string (sonde) selection.
- Time stamps the individual logging pass in a tabulated format.
- Retrieves data from the memory adapter tool at job completion.
- Merges time-stamped logging passes with depth and creates data files of individual passes.

Features

- Collects digital data from connected downhole tools
- Lithium battery pack powers MAT and all tools in string
- Stores data withing 64MB internal memory core
- 1, 12.5, and 25 samples/sec recording rates per tool channel
- Data is downloaded into a computer via USB
- Software generates Premier Logging file
- CCL contained within tool body
- Perfect for use in remote or hazardous environments

Benefits

The sampling rate of the MAT tool is quick and easy to program using the Premier Logging Suite. The MAT tool allows for direct communication over a standard USB connector and has an on-board



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real-time clock to allow easy merging of data with depth. In case of power loss, all information is stored internally.

Memory Adaptor Tool		
Type	Temperature Rating	Part No.
Standard Service	150°C (300°F)	AM015WA0008
Standard Service - High Temperature	177°C (350°F)	106235
Sour Service	150°C (300°F)	AM015WB0008
Sour Service - High Temperature	177°C (350°F)	106236

Spare Parts and Accessories	
Type	Part No.
Hex Socket Cap	SCC6-32SB01875
Seal Kit	AM015RK0001
Spring Pin	SP1/16SB050 (x2)
Accessories	
Standard Lithium Battery(165°C)	AM015UU0006
High Temperature Lithium Battery (180°C)	106285
Battery De-Passivation Box	106326
18V AC Adapter	AE309UU0001
Portable Memory System Includes Linewise System, Premier Software Suite, laptop, thermal printer, and rugged carrying case)	AE302UU0008

Specifications	
	Details
OD	1.375 in (34.9 mm)
Length	44.9 in (1,140 mm)
Weight	10.8 lb (5 kg)
Pressure Rating	15,000 psi (103.5 MPa)
Memory Size	64 MB
Recording Rate(s)	1, 12.5, and 25 samples/sec
Lithium Battery Specifications	
Pack Length (complete assembly)/td>	35.8 (910 mm)
Capacity	13 Ah