Technical Specification Sheet

Reservoir Analysis Sonde Safety Sub - $1^{11}/_{16}$ In.

The Reservoir Analysis Sonde Safety Sub (RSS001), is a mandatory component in a Memory-RAS string. Positioned between the battery and MLT, it is equipped with pressure and temperature sensors to monitor borehole conditions against user programmable thresholds. A power switch is included in the RSS to disable battery power to MLT (and all attached tools) in case of tool failure. The tool also operates in Water Flow (oxygen activation mode) for determining water velocity.

In a Memory-RAS operation, the RSS will serve as a watchdog for MLT's health (via handshaking in a designated communication link) and periodically reporting instantaneous pressure and temperature measurements to MLT. In case of communication failure or MLT requesting a reboot, the RSS enters a reset cycle which will cut off power to MLT and RAS, and re-enabling the power downstream after 45 seconds. This operation will automatically put RAS into idle mode and allow MLT to re-initialize and to recover from a failure.

Ratings & Dimensions

Diameter	1.69 in (43.0 mm)
Length	18.3 in (464.0 mm)
Weight	9.3 lb (4.2 kg)
Max temperature	320°F (160°C)
Max pressure	15,000 psi (103.4 mPa)
Materials	Corrosion resistant materials used throughout

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