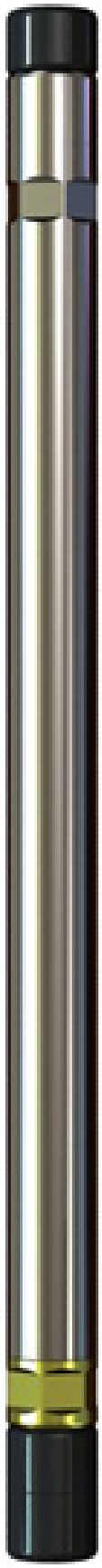
Technical Specification Sheet

Telemetry Control Unit - 1 3/8 in.



The Telemetry Control Unit (TCU101) is the communications control centre for the logging system. It provides communications on standard service mono-conductor electric wirelines of up to 9,100m (30,000ft). Located between the inter-tool communications bus and the Wireline Uplink, it controls the collection of data from the tools below and packages it for transmission to the surface system. It receives commands from the surface system via the fast downlink and provides responses back to the surface as required. The TCU also houses the main downhole power supply providing power to the logging tools.

Ratings & Dimensions

Max temperature	350°F (177°C)
Max pressure	10,000 psi (68.9 mPa)
Outer diameter	1.38 in (34.9 mm)
Length	24.9 in (632.0 mm)
Weight	6.1 lb (2.8 kg)
Materials	Corrosion resistant materials used throughout

Hardware Characteristics

Combinability	All HD tools (RADii, iQ, Array PL, RAS, etc)
Acquisition mode	Real-time

Electrical Specification

Voltage	300 V DC
Current	Load dependent
Tool bus rate	500 kbps
Uplink rate	150 kbps
Downlink rate	16 kbps

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