Flowmeter and Temperature Electronics Tool

Measures wellbore qualitative fluid identification data

Applications

- Production logging flow and injection profiling
- Conventional temperature logging
- · Leak detection, gas inflow points, top of cement
- Basic "fracture height" determination
- Flow behind pipe

Features and Benefits

- Combinable with high-speed digital (HD) telemetry tools
- · Common base tool with multiple spinner options
- Compact, versatile, and robust tool

Tool Description

The Weatherford flowmeter and temperature electronics tool (FLTE) is used in with both the full-bore spinner and the fixed-cage spinner mechanical impeller.

A dedicated hall-effect array provides ten pulses per revolution flowmeter output and a fast-response PRT measures wellbore temperature.





Flowmeter and Temperature Electronics Tool

Specifications

Ratings and Dimensions

| Maximum temperature | 350°F (177°C) |
|---------------------|---|
| Maximum pressure | 15,000 psi (103.4 MPa) |
| Outside diameter | 1.69 in. (43.3 mm) |
| Length | 14.6 in. (371 mm) |
| Weight | 7.2 lb (3.3 kg) |
| Materials | Corrosion-resistant materials used throughout |

Flowmeter Measurements

| Output | 10 pulses per revolution |
|--------------|---|
| Maximum rps | 200 rps |
| Resolution | 2 ft (0.61 m)/min in water |
| Accuracy | +/- 2 ft (0.61 m)/min in water |
| Velocity max | 4,000 ft (1,219.2 m)/min with 4.0-in. (10.16-cm) pitch spinner |

Temperature Measurements

| Range | -40 to 350°F (-40 to 177°C) |
|---------------|-----------------------------|
| Resolution | 0.006°F (0.003°C) |
| Accuracy | 0.9°F (0.5°C) |
| Linearity | 0.5°F (0.15°C) |
| Response time | Approx. 0.5 seconds |

Hardware Characteristics

| Combinability | All HD tools (RADii [®] , iQ [™] , PL, RAS [™]) |
|------------------|--|
| Acquisition mode | Real time with telemetry Control unit (TCU) Memory with memory logging tool (MLT) |

Electrical

| Current | 7 mA at 50 V |
|---------|---------------|
| | 16 mA at 19 V |



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