Technical Specification Sheet

IntelleX™ Memory Correlation Tool - $1^{11}/_{16}$ in.

The IntelleX™ Memory Correlation Tool (MCT) is a combined casing collar locator, gamma ray, piezoresistive pressure and temperature tool ideal for high resolution depth determination, BHP/gradient surveys, monitoring sliding sleeve (SSD) positioning and determining fluid movement in producing or injecting wells. The tool can be programmed to sample any or all channels at up to 32 samples per second. The 8 MB non-volatile flash memory can store up to 550,000 data sets.

Ratings & Dimensions

Max temperature	347°F (175°C)
Max pressure	15,000 psi (103.4 mPa)
Outer diameter	1.69 in (43.0 mm)
Length	5.55 ft (1,691.0 mm)
Weight	29.8 lb (13.5 kg)

Hardware Characteristics

Transducer type	Piezoresistive
Housing	Corrosion resistant | 17-4PH (standard) or NACE MR-01-75
Acquisition mode	Memory
Connection	Top/bottom: $^{15}/_{16}$ in x 10UN ($^{5}/_{8}$ in sucker rod)

Electrical Specifications

Battery	5 x 'C' cell lithium battery
Voltage (DC)	19.5 V, 6.2 Ahr
Memory rate	179 hrs @ 1 sps | 52 hrs @ 1 sps PTGR
Memory capacity	8MB
Current	5 mA standby | 54mA sampling
Consumption	At 1 sps > 4.3 days operation from a single battery

Temperature Measurements

Range	32 – 345.0 °F (0 – 175.0 °C)
Accuracy	< ±0.9°F (< ±0.5°C)
Resolution	< 0.02°F @ 1 sps (< 0.01°C @ 1 sps)

Pressure Measurements

Range	0 – 15,000 psi
Accuracy	< ±0.05% FS
Resolution	0.01 psi @ 10,000 psi & 1 sps

Gamma Ray Measurements

Max counting rate	3,000 cps, 4,000 API
API calibration	1 CPS/API unit

Casing Collar Locator

Range	2 $^{3}/_{8}$ to 7 in. (60.5 to 177.8 mm)
Principle	Magnetic flux line

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