

IntelleX™ Fast-Sampling PT/CCL Tool

Monitors rapid pressure, temperature changes, and depth determination

Applications

- Bottomhole pressure (BHP) surveys
- Gradient surveys
- Sliding sleeve positioning
- Depth determination

Features and Benefits

- Fast sampling piezoresistive pressure and temperature sensors for high-resolution well and bottomhole survey applications
- Programmable with various sample rates, enabling customization for different applications and optimizing data collection

Tool Description

The Weatherford IntelleX fast-sampling PT/CCL tool is a casing collar locator (CCL), 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.



IntelleX™ Fast-Sampling PT/CCL Tool

Specifications

Ratings and dimensions

Outer diameter	1.69 in. (43.0 mm)	1.38 in. (34.9 mm)
Length	24.36 in. (618.74 mm)	21.6 in. (549.0 mm)
Weight	12.0 lb (5.45 kg)	6.33 lb (2.87 kg)
Maximum temperature	347°F (175°C)	
Maximum pressure	15,000 psi (103.4 mPa)	

Hardware characteristics

Transducer type	Piezoresistive
Housing	Corrosion resistant 17-4PH (standard) or NACE MR-01-75
Combinability	None/Standalone
Acquisition mode	Memory
Connection	Top/bottom: 15/16 in. x 10UN (5/8 in. sucker rod)

Temperature measurements

Range	32 - 345°F (0 - 175°C)
Accuracy	< ±0.9°F (< ±0.5°C)
Resolution	< 0.02°F @ 1 sps (< 0.01°C @ 1 sps)

Pressure characteristics

Range	0 - 15,000 psi (0 - 103.42 MPa)
Accuracy	< ±0.05% FS
Resolution	0.01 psi @ 10,000 psi & 1 sps

Electrical specifications

Battery	1 x 'AA' cell lithium battery
Voltage (DC)	3.3 - 3.9 V, 1.6 A hr
Memory rate	232 hr @ 1 sps 80 hr @ PT 1 sps CCL 16 sps
Memory capacity	8MB
Current	1 mA standby 3 mA sampling
Consumption	At 1 sps > 5 days operation from a single battery

