## IntelleX<sup>™</sup> 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<sup>m</sup> 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<br>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 |



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