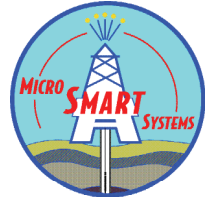


CCL-100



Downhole Memory CCL Tool

The CCL-100 downhole memory CCL Tool is used to acquire downhole collar information for use on an API log when an accurate downhole pipe correlation on slickline is needed.

The CCL-100 may be used downhole by itself or in tandem with other Micro-Smart downhole memory tools, such as Pressure, Temperature, Flow and Gamma tools.

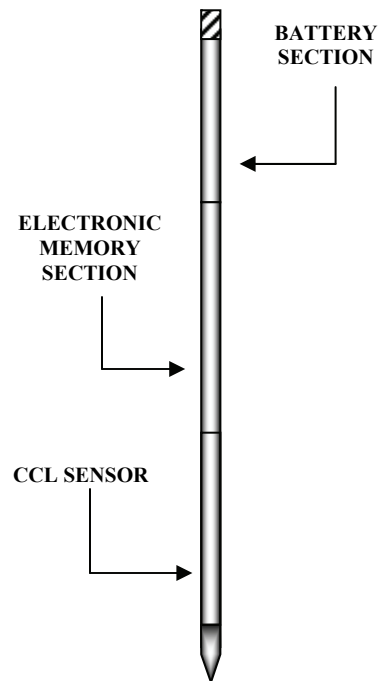
When combined with the Smart Depth System, depth data and CCL data are merged and an API log is generated to be used for downhole correlation to an existing log.

The CCL sensor is located externally from the electronics and may be changed to a larger diameter sensor, if necessary, for maximum signal strength.

If downhole correlations on slickline are of high importance, the CCL-100 Memory CCL can enhance confidence prior to any downhole work being performed.

SMART FEATURES:

- Non-volatile EEPROM memory
- Changeable collar locator-larger size may be used
- Tool performs internal tests and delivers audible signal to confirm operation
- User friendly software
- Standard ASCII data storage format



"KNOW YOUR LOCATION"

SPECIFICATIONS:

Memory Capacity: 65,000 data points

Maximum Pressure: 15,000 psi (102,000 kPa)

Sampling Interval: .234 seconds

Diameter: 1.38" (34.9 mm)

Weight: 19 lbs. (8.6 Kg)

Operating Temperature: 32°F to 325°F
(0°C to 160°C)

Length: 58" (1.5m)

Power: 14.4v (4 'C' cell Lithium)