

### Features

- Dual spacings and up to three frequencies (400kHz, 2MHz, and 4MHz optional)
- Up to 12 high-quality propagation resistivity measurements
- Resistivity range up to 4,000 ohmm
- 150°C and 175°C rated
- Works in all types of mud

### Benefits

- Provides high-quality resistivity measurements for geosteering and formation evaluation
- Tool serviceability in shop or rigsite

### Applications

- Detects reservoir boundaries
- Detects oil-water or gas-water contacts
- Estimation of oil in place

### Options Available

- H2S resistance upgrades
- Gamma

*A multi-frequency propagation resistivity tool specifically designed for coiled-tubing drilling applications.*

### OVERVIEW

The ResTracker™ uSlim is a multi-frequency propagation resistivity tool specially designed for coiled-tubing drilling applications. Like its larger-size counterparts, the tool employs fully symmetric transmitting and receiving antenna arrays that allow the resistivity measurements to be fully compensated for borehole and temperature effects. All the electronics boards are packaged in a way that they can be replaced by customers in shops or even at rig sites to minimize tools downtime. The tool has been designed with maximum ruggedness to increase its survivability in harsh drilling environments.

### DATA DELIVERABLES

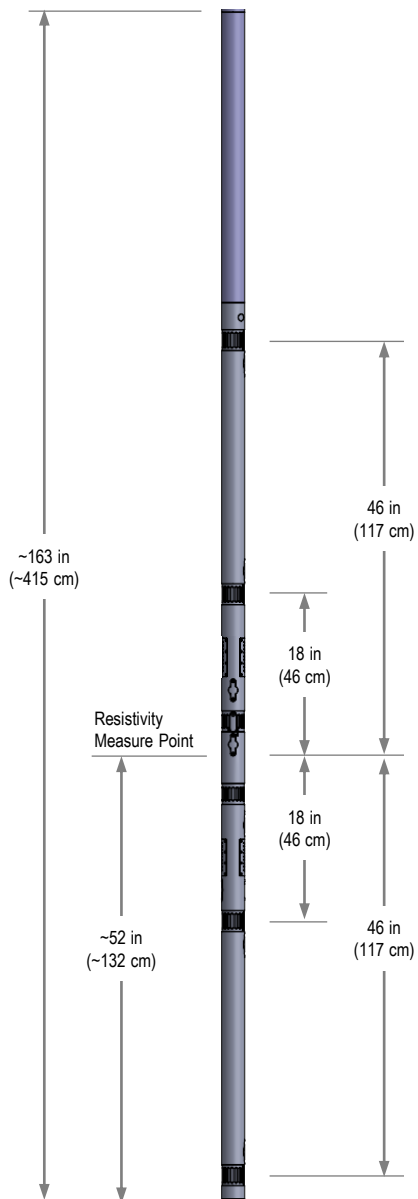
The ResTracker™ uSlim operates at 400 kHz, 2 MHz, and 4 MHz (optional) frequencies from dual antenna spacings. It can offer up to 12 fully compensated propagation resistivity measurements. All the raw measurements are stored in the tool memory. The tool provides flexible format for real-time data transmission of the resistivity measurements. Borehole corrections are available to real-time and memory data.

### INTEGRATION WITH 3<sup>RD</sup> PARTY BHA

The ResTracker™ uSlim tool can be customized to interface with 3<sup>rd</sup> party CTD BHAs.



### Specifications



#### GENERAL

|                           |                     |
|---------------------------|---------------------|
| Tool size                 | 2-3/8 in            |
| Nominal OD                | 3-3/8 in            |
| Max OD                    | 2-3/8 in            |
| Hole size range           | 3-3/4 in – 4-1/8 in |
| Length                    | 13.6 ft (may vary)  |
| Connection makeup torque  | TBD                 |
| Max DLS rotating          | N/A                 |
| Max DLS sliding           | 40°/100ft           |
| Max operating pressure    | 10,000 psi          |
| Max operating temperature | 150°C / 175°C       |
| Max RPM                   | N/A                 |
| Max sand content          | 0.1%                |
| Max flow rate             | 60 gal/min          |
| H2S-resistant upgrade     | Option              |
| Thru bus                  | Option              |
| Power consumption         | Configurable        |

#### MEASUREMENTS

|  |  |
|--|--|
| Operating frequencies                          | 400 kHz & 2 MHz (4 MHz option)           |
| Coil spacings                                  | 18 in & 46 in                            |
| Resistivity range                              | 0.1 – 3,000 ohmm (4,000 ohmm with 4 MHz) |
| Depth of investigation – Propagat. resistivity | Up to 14 ft                              |
| RPM measurement                                | N/A                                      |
| Total gamma                                    | Option                                   |
| Annular pressure                               | N/A                                      |

#### ACCURACY

