



**3 3/8" Product Line**

**Array Induction Log**

The Array Induction Log measures apparent conductivities of the formation at seven different depths of investigation from 10" to 120". The conductivities become converted into resistivities, which are presented at vertical resolutions of 1 ft, 2 ft and 4 ft. The tool also includes an SP measurement. An induction log device is most suitable in high-resistivity mud systems like oil-base mud, fresh-water or in air-filled holes.

**Specifications**

Diameter:	92 mm (3.62")	Sensor type: Coil Array (Induction) SP electrode
Length:	5600 mm (220.5")	
Weight:	101 kg (222 lbs)	
Max. Temp:	175°C (350°F)	Measure Points (from bottom):
Max. Pressure:	140 MPa (20 000 psi)	
Telemetry required:	yes	Induction: 1412 mm (55.6")
Top Connector:	yes	SP : 196 mm (7.7")
Bottom Connector:	none	

**Measuring Parameters:**

<u>Measurement resolution:</u>	1 ft, 2 ft, or 4 ft	<u>Measuring Range:</u>	Induction: 0.5 to 5000 mS/m (mmho)
<u>Depth of Investigation:</u>	DOI: 10", 20", 30", 40", 60", 90" and 120"		SP: -1000 to 1000 mV *
		<u>Accuracy:</u>	+/- 2% of reading, or +/- 0.5 mmho/meter
			* surface equipment dependent

**Logging Parameters**

Recommended		Recommended	
Min. Hole Diameter:	115 mm (4.5")	Logging speed:	30 m/min (5900 ft/hr)
Max. Hole Diameter:	480 mm (18.9")	Sample Rate:	recom. 3"

**Displayed Standard Curves**

<u>Resolution 1ft*:</u>		<u>Resolution 2ft</u>	
R10doi1	Resistivity 10"	R10doi2	Resistivity 10"
R20doi1	Resistivity 20"	:	:
R30doi1	Resistivity 30"	R120doi2	Resistivity 120"
R40doi1	Resistivity 40"		
R60doi1	Resistivity 60"	<u>Resolution 4ft:</u>	
R90doi1	Resistivity 90"	R10doi4	Resistivity 10"
R120doi1	Resistivity 120"	:	:
		R120doi4	Resistivity 120"

\* Curves are corrected for borehole diameter, mud resistivity and tool standoff.

**Combinability**

With all other 3 3/8" instruments  
This instrument must be the bottom tool within a string

