



**EFTECH DRILLING SOLUTIONS**  
Efficient | Reliable | Cost Effective

# 1185 DUAL INDUCTION (DUIN)

The 1185 Slim hole Dual Induction instrument measures induction conductivity and calculates resistivity for deep and medium depths of investigation through the proprietary LWT composite collar.

## OPERATING PRINCIPLE

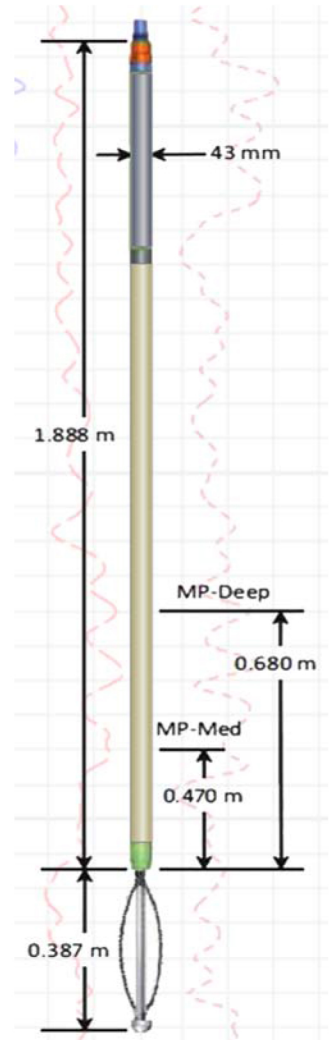
Tuned transmitter coils induce an electromagnetic field in the borehole and adjacent formations. The magnitude of the magnetic field's ground loop current induces voltages in the receiver coils proportional to variations in the total localized conductivity which is then converted to resistivity. Corrections including geometric factor, borehole, skin effect, coil temperature, and salinity are applied through software during acquisition. The DUIN operates from inside the electrically invisible LWT composite drill collar.

## SPECIFICATIONS

<b>Weight:</b>	8.2 kg (18lbs)	<b>Recorded Curves:</b>	Deep Conductivity (mmho): Cdeep Medium Conductivity (mmho): Cmedium Sonde Temperature (deg C): temp
<b>Maximum Temp:</b>	150 deg C (300 deg F)		
<b>Maximum Pressure:</b>	100 MPa (14,000 PSI)		
<b>Receiver Coils:</b>	2	<b>Calculated Curves:</b>	Deep Resistivity (ohmm): Rdeep Medium Resistivity (ohmm): Rmedium
<b>Transmitter Coils:</b>	6		
	- Deep: 1 emitting, 3 focusing - Medium: 1 emitting, 1 focusing		
<b>Operating Frequencies (@ 10 mS/m):</b>			
	- Deep: 50 kHz - Medium: 100 kHz		

## LOGGING PARAMETERS

<b>Logging Speed:</b>	12 m/min (23 ft/min)	<b>Measurement Range:</b>	- Conductivity: 10 - 2000 mS/m - Resistivity: 0.5 - 100 ohmm
<b>Sample Rate:</b>	1 sample / sec		
<b>Depth of Invest.:</b>	(@ Rt/Rm = 10)		
	- Deep: 1.3 m - Medium: 0.65 m	<b>Accuracy:</b>	- Maximum Error: 5% (@ 2000 mS/m)
<b>Vertical Resolution:</b>			
	- Deep: 1.3 m - Medium: 0.65 m		
<b>Minimum Hole Size:</b>	125 mm (4.9 in)		
<b>Maximum Hole Size:</b>	250 mm (9.8 in)		



EFTECH Drilling Solutions Sdn Bhd | 1151083-U

A Malaysian DD/MWD/LWD Service Provider

PLO 232 Jalan Kencana Emas 2,  
Kawasan Perindustrian Tebrau III,  
81100 Johor Bahru, Malaysia

Tel: +607 3578 311 | Fax: +607 3511 312  
enquiry@eftech.com.my

[www.DatalogTechnology.com](http://www.DatalogTechnology.com)

[www.eftech.com.my](http://www.eftech.com.my)

TECHNICAL DATA SHEET