

CERTIFICATE OF CALIBRATION

RAS-Y-260750403

Certificate No: RAS-Y-260750903	Date: 02/07/2026
Customer: CHINA PETROLEUM ENGINEERING	
Location: Iraq – Basra	

Equipment Description: RD8100 Precision Cable & Pipe Locator	
Manufacture: Radiodetection SPX	
Serial Number: 10/81PXL-1042	
Transmitter Serial No: 10/TX-10-94617015	
Model: RD8100PXL	
Range: {24±2}°C %RH (41±10)	
Accuracy: As Per Manufacture Specification	Status: Calibrated

Calibration Date: 02/07/2026	Calibration Due: 01/07/2027
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Environmental Conditions			
Temperature:	(24± 2) °C	Humidity:	(25 ± 10) % RH

Description	Serial No.	Model	Manufacturer	Certificate No.	Traceable Standard
Cable & Pipe Locator	10/81PXL-1042	PXL	C.Scope	CH09D1874	ISO/IEC 17025
Signal Transmitter	10/TX-10-94617015	TX10	C.Scope	CH09D1879	ISO/IEC 17025

Test Results:

No.	Selection	Reference Reading	Instrument Reading	Error	Result
1	Depth Measurement	0.25 m	0.25 m	0.00 m	PASS
	Depth Measurement	0.64 m	0.66 m	0.02 m	PASS
	Depth Measurement	1.50 m	1.54 m	0.04 m	PASS
	Depth Measurement	2.25 m	2.32 m	0.07 m	PASS
	Depth Measurement	2.80 m	2.91 m	0.11 m	PASS

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Test Results: 2 – Functionality According to Reference Tool

No.	Test Mode	Reference Tool / Utility	Instrument Response	Result
1	Passive Mode (Power 50Hz)	Buried LV Power Cable	Located at 1.20 m Depth	PASS
2	Passive Mode (Radio Signal)	Telecommunication Cable	Located at 0.90 m Depth	PASS
3	Active Mode (512 Hz)	Power Cable (Direct Connection)	Tracing Successfully	PASS
4	Active Mode (8 kHz)	Metallic Pipe (Direct Connection)	Tracing Successfully	PASS
5	Active Mode (64 kHz)	Metallic Pipe (Inductive Mode)	Tracing Successfully	PASS
6	Active Mode (83 kHz with Bluetooth)	Buried Cable	Survey Measurement Passed	PASS
7	Active Antenna Modes (Peak, Peak+, Guidance, Broad Peak, Null)	Buried Pipe (Active Mode)	Passed for All Modes	PASS
8	Active Mode (33 kHz Guidance)	Signal Clamp on Power Cable	Tracing Successfully at 0.54 m Depth	PASS
9	Strike Alert	Shallow Power Cables	Audio & Visual Alarm Activated	PASS

End of Test Result

Calibration Engineer Signature:

Ahmed Yahya




Instruments or Device Final Status:

QA/QC Manager O.S.A

