

Precision locator

Pinpoint and locate buried telecoms and other utilities easily and repeatedly.

Highest performance

Fast dynamic response and excellent signal selectivity, locates buried services even in congested areas.

Ease of use

Ergonomic interface, large clear display, positive keypad and automatic depth measurement.

Fault finding

Identify sheath faults in a buried cable, even if a problem has not yet arisen.

RD4000TL

Telecommunications – advanced locating & fault-finding

The RD4000 TL cable and pipe locator has been introduced to meet the demand for an advanced locator dedicated to the telecommunications industry. Radiodetection's RD4000 is widely seen as the industry standard, whether locating utilities and marking for construction, mapping or fault finding. The RD4000 series is the product against which all others are measured.

As a telecommunications professional you demand the best tools to do your job. The RD4000TL delivers precision location of telecommunications infrastructure with the highest level of performance, even in crowded and electrically noisy environments. The RD4000TL is a sophisticated and powerful instrument and yet the combination of Transmitter and Receiver are easy to use, thanks to Radiodetection's continued development in response to the demands of the market.

With a large, clear display and simple user interface plus 'Real' sound, the RD4000TL make location of telecommunications cables swift and repeatable. And we recognize that you not only want to locate telecommunications services but also mark to avoid, and map, other utilities in the area.

Telecommunications engineers will find the fault-finding capabilities of the RD4000TL a great tool to achieve effective and efficient location and identification of cable sheath faults, even if these have yet to create a problem.

At the heart of the RD4000TL is an advanced, powerful digital measurement and processing engine that is second to none. Patented signal processing algorithms provide dramatic performance, even when locating on small signals in the noisiest areas. Radiodetection expertise, know-how and research and development is driven by an appetite to continuously improve our art and service. Sensitivity and signal to noise performance are unmatched in the field of cable and pipe location, delivering accurate repeatable location even in difficult circumstances.

Robust, reliable and easy to use

- Large clear LCD display
- Ergonomic, simple keypad
- Self-test function
- Extended warranty

Telecommunications precision cable and pipe location

- Reliable, repeatable locate for mark to dig or detailed mapping
- Multiple frequencies to optimize locate of other utilities in the area
- Fast, positive response for optimum location performance; peak and null modes

High performance Receiver

- Highest performance digital Receiver even in the presence of noise
- Fast, clear, positive response even in congested areas
- Position and depth indications
- Current measurement to identify correct utility in close proximity to others
- Real Sound; audible perception of locating dynamics
- Stethoscope (option) enables individual cable pairs to be traced and identified

High output Transmitter

- Multiple active frequencies and modes provides cooperative location
- Fault finding and cable and pipe integrity measurement

SIMPLE TO USE

4 key interface for minimum training and ease of use

AUTO BACKLIGHT

For low light operation

'REAL'

Non-synthesized sound, giving more information about the utility being located

HIGH RESOLUTION

Signal strength meter for pin-point precision

MULTI-SIGNAL RESPONSE

Peak and null, left and right

WEATHER SEALED

RS232 earphone and accessory ports

CHOICE OF BATTERIES

Dry cells or rechargeable options

ENGINEERED PLASTICS

Ergonomic, robust and all weather housing

RECEIVERS

RD4000TL - Telecoms Locate

- Power, Radio & 3 active frequencies

- Highest locate performance with multi-frequency
- 8kHz fault find
- Location accessories
- Current display
- Auto depth



Multiple modes

Passive Power and Radio and Three active frequencies enable multi-utility location

High Power Transmitter

Helps with locating difficult and deep cables and pipes

Fault Find Signal

With A-Frame allows identification of even high impedance faults

Peak & null display

Fast, positive response for optimum performance pin point location

T3F Transmitter Shown

LED DISPLAY

EFFICIENT INDUCTION

ERGONOMIC ROBUST CASE

EXTERNAL 12V D.C. SUPPLY

Direct connection output protected against inadvertent connection to AC voltages up to 250v

TRANSMITTERS

RD4000 T3F

- 8kHz fault find codes
- Cost effective 3 watt transmitter
- 3 Locate frequencies
- 1 Induction frequency
- $\pm 80v$ rms o/p voltage
- S/C protected

- Rechargeable option and external 12v dc supply available
- Various clamp and connectors available as accessories

OPTIONAL

RD4000 T10

- 10 watts output power
- Multi-meter functions for checking cable/pipe integrity
- Up to 16 locate frequencies
- 2 Induction frequencies
- Fault find signals
- Current direction signals
- Web-enabled
- FREE Downloads

- Various clamp and connectors available as accessories



Powerful DSP platform and advanced algorithms

Industry's most sensitive locator

5E⁻¹⁵ Tesla

Large dynamic range and exceptional selectivity

140dB

Delivers Best in class performance

The RD4000TL quickly and efficiently locates and traces the path of buried metallic and fiber-optic cables (with trace wire) and precisely locates the position of any sheath faults.

The RD4000TL kit consists of:

RD4000TL PRECISION RECEIVER

- Locates metallic cables and pipes and non-metallic pipes (with a trace wire)
- Using sondes, will allow tracing of empty ducts

T3 TRANSMITTER

- 3 watt transmitter with advanced fault find signaling
- Direct connect, clamp and induction modes

CABLE CLAMP

- Enables signal to be connected to telecommunications cables

A-FRAME

- Enables accurate location of sheath faults in buried cables from above ground

STETHOSCOPE available (option)

- Separately identify individual cable pairs in a cable bundle

RD4000TL TECHNICAL SPECIFICATION			LOCATING DEPTH GUIDE 10mA active locate signal - typical locate depths
SENSITIVITY AT SPOT FREQUENCIES ACTIVE frequencies at 8Hz b/w Refer to configuration for available frequencies	FREQUENCY	SENSITIVITY @ 1m	GOOD CONDITIONS
	50Hz or 60Hz	2 mA	10 ft./3 m
	15 - 30kHz	25 µA	10 ft./3 m
	512Hz or 640Hz	50 µA	16 ft./5 m
	33kHz	6 µA	16 ft./5 m
	83kHz	8 µA	16 ft./5 m
	131kHz	10 µA	16 ft./5 m
CURRENT READING	± 5% Active signal bw limited		
FAULT FINDING	Diagnose faults from s/c to 2M ohm		
LOCATE QUALITY	Dynamic Range 140dB@10Hz bandwidth Selectivity 120dB/Hz up to 200kHz Sensitivity 5E ⁻¹⁵ Tesla (32,768Hz, 1Hz b/w)		
LOCATE ACCURACY	±5% of depth, good condition Depth achievable dependent upon signal current on line Note greater depth means broader peak response		
DEPTH ACCURACY on undistorted signal	Line ± 2.5% 0.1 m to 3 m (4in to 10ft) Sonde ± 2.5% 0.1 m to 7 m (4in to 16ft)		
BATTERIES	2 LR20 (D) 1.5 V alkaline. 40 hours life, nominal @ 20°C (68°F), intermittent use Compatible with D type NiMH rechargeable batteries		
WARRANTY 12 months as standard	Additional 12 months warranty (FOC) on registration Further 12 months warranty - chargeable option		
ANTENNA MODES			
PEAK	Standard locate mode - all purpose locate		
NULL	L and R arrows for simple locate		
FAULT FINDING			
	With the A frame accessory, RD4000TL accurately locates cable sheath and pipe coating faults typically up to 2M ohm impedance		
8kFF	Ideal for cable sheath faults. High voltage to locate high impedance. 8kHz locate signal		

RD4000TL CONFIGURATION																
PART NO.	METRIC DEPTH	POWER 50Hz	POWER 60Hz	RADIO	ACTIVE LINE						SONDE 33kHz	8k FAULT FIND	PEAK	NULL	ACTIVE LOCATION DEPTH	CURRENT DISPLAY
					LF=512hz	LF=640hz	8Khz	33Khz	HF=65hz	HF=131hz						
10/RD4KTL -001	✓	✓		✓		✓		✓		✓	✓	✓	✓	✓	✓	✓
10/RD4KTL -003	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
10/RD4KTL -005	✓	✓		✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10/RD4KTL -006	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓

World leaders



Radiodetection is a proud member of the SPX group of companies, which provide technical products and service solutions worldwide.

Radiodetection and its associated companies specialize in the design and manufacture of products for the location and maintenance of underground pipes and cables. Our aim is to be viewed as the supplier of choice of 'high performance' quality equipment using advanced product technologies. We are also committed to both design innovation and customer support.

Technical support



Radiodetection equipment users have easy access to technical support. A call to your regional representative, or the Radiodetection head office, will put you in contact with our team of field-experienced technical experts.

Servicing and repair



Radiodetection has a team of factory-trained service technicians and dedicated service facilities accredited to ISO 9000. Turnaround is fast, and costs are very competitive. All repairs carry a six month warranty.

Training



Product training for your operators and training personnel is available on your site, or at Radiodetection's headquarters. Training is with qualified instructors and each trainee receives a certificate to confirm they have received the training.

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