RD4000RX Technical Specification

Description:	RD4000 Precision L	ocator	(Josef)
Part No:	11/4KRx —* (*= v 11/4KMRx —* (*= 1		
Physical:			
Construction	High impact thermo		
Ruggedness	Withstands one me		
Dimensions	Approximately 690n		
Weight	Standard version:	2.8 kg/6lb	
	EMS version:	3.2 kg/7lb	

				Locating Depth Guide (meters/yards)	
Mode	Frequency	Bandwidth / Hz	Sensitivity* @ 1 m	Good Conditions	Poor Conditions
Power	40 Hz – 700 Hz	500	7.5 mA	3	2
Radio	14 kHz – 26 kHz	10,000	20 µA	2	1
Active frequencies	8 kHz–100 kHz	10 ,20 or 40	25 µA	5	2
Active frequencies	100 kHz –200 kHz	10, 20, or 40	50 µA	3	2
CD	up to 1024 Hz	10, 20 or 40	250 µA	5	2
Lf	up to 2048 Hz	10, 20 or 40	250 µA	5	2
CPS	100 Hz or 120 Hz	10, 20 or 40	10mA	3	2
Fault-Find (via	8 Hz and 8.192 kHz	10 or 20	2 µV @	3	2
optional external A-frame accessory)		10	1M		
······································			100 µA		

* Sensitivity specified for Peak mode

		0011	ioning opcomou	lor r out mouo			
	Operating Modes:						
	Locate Accuracy:	5% of depth (depending on depth – see below)					
	Current Accuracy:	5% of actual current (depending on depth – see below)					
	Depth Accuracy	5% of depth on undistorted signal with no adjacent signals					
	Depth Range	Line — up to 3m @ 5% depth accuracy, 5% current accuracy					
		up to 5m @ 10% depth accuracy, 10% current accuracy					
		Sonde – up to 8m (with SuperSonde)					
	<u></u>						
	Visual Indication:	Liquid crystal	iquid crystal display indicating the following:				
		Signal Strength %		Line Depth	Sonde Depth		
		Line signal current Line/sonde mode Battery Status		Gain Level	Operating Mode		
				Peak/Null/Single mode	Left/Right direction arrows		
				Speaker Volume	CD direction arrows		
	Accessory connected						
	Audio Indication:	Audio signal	idio signal output through water resistant speaker or optional headphones.				
	Search Antennas: 2 x dual wound horizontal and 1 vertical.						
	Antenna Configurations:	Single horizontal for Wide response operation					
	_	Dual horizontal for Peak operation					
	Horizontal and vertical for Null operation						
	Gain Control:	Rotary touch gain paddle					

Batteries:		4 x Alkaline size D (IEC: LR20)				
	Opt	ional recharg	peable battery pack with four NiMH re	echargeable batteries		
Battery life		RX: greater than 16 hours @20ºC (non-EMS modes) MRx: greater than 8 hours @20ºC (EMS mode)				
Temperature F		Operating temperature: -20°C to +50°C Storage temperature: -40°C to +70°C				
External Conn	Acc	RS232 connector (web-enabling/data logging) Accessory socket Headphone socket				
Standard accessories RS232 lead						
Ontional case		,00				
Optional accessories Carry bag Sondes						
	2" and 4" clamps Stethoscopes (CD and standard)					
	CD clamps Headphones (summer and winter)					
-	ubmersible ar		Rechargeable battery pack (complete with external 12 volt charging		charging lead)	
A٠	A-frame Data logger					
Automatic Acc	cessory Dete	ection				
-			ally identified by the RD4000 receive s operating mode(s) as appropriate t		e accessory	
		•		o the docessory.		
	Clamps (CD and standard) Submersible Antenna Sondes Stethoscopes (CD and standard)					
	A-frame					
Receiver Options:						
Electronic Ma						
(RD4000MRx)Operation : Detection of any 1 of 6 marker types buried to a depth of 1.4m, Detection of large deep markers to a depth of 3m, Bar-graph and variable pitch tone to indicate signal strength Manual EMS Gain Control – High / Low						
Dedicated Marker Detection						
Dual Mode Operation: Narrow Band Cable Location (Null Mode only) combined with Marker Ball Detection						
Marker Types						
Applica		cation	Colour	Frequency		
	Power		Red	169.8 kHz		
	Water		Blue	145.7k Hz		
	Sanita		Green	122.5 kHz		
		one	Orange Yellow	101.4 kHz 83.0 kHz		
	Gas		I EIIUW	US.U KEIZ		

Compatibility

Recommended for use with Radiodetection T3, T3F, T10, and PTX-3 transmitters, and LMS

Also backward compatible with obsolete Radiodetection transmitters.

Orange/Black

Quality Control BS5750/ISO 9001/EN29001.

Cable TV

Approvals

(€ Complies with European R&TTE Directive 1999/5/EC Complies with FCC Rules Part 15

Warranty

12 months.

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Radiodetection products are under continuous development and are subject to change without notice

77.0 kHz

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