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A. Typical Applications

Item	Parameter		
Description	- Multi-purpose precision locator receiver		
	- Electronic marker-ball detection		
Uses	- Locating & pinpointing the position of buried pipes and cables		
	- Frequency compatible marker types		
	- Detection of any one of nine marker balls types buried to a depth of 6ft (2m)		
	- Detection of large flat markers to a depth of 9ft (3m)		

B. Receiver Assembly

B. Receiver Assembly	<u></u>	
Item	Parameter	
Construction	- Carbon fiber reinforced antenna tube	
	- High impact thermoplastic (ABS) injection molded housing	
Weight	5.95lbs (2.7kg)	
Dimensions	10.3in(L) x 5in(W) x 28in(H) (262mm x 128mm x 711.7mm)	
Display Type	Sharp TFT LCD VGA color display, 3.52in (89mm)	
Receiver Antennas	2 x Peak antennas, 1 x null antenna, 1 x compass antenna, 1 x marker transmit antenna, 1 x marker receiver antenna.	
Batteries	- Rechargeable Lithium-ion batteries with 100-240V AC mains charger.	
	- Replaceable (6 x standard Alkaline AA batteries) batteries can be used when required	
Battery Life	- Alkaline – typically six hours intermittent use at 70°F (21°C)	
	 Lithium-ion – typically 20 hours intermittent use at 70°F (21°C) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature. 	
Bluetooth	- Plug and play custom Bluetooth interface	
External Connectors	- 1 x Socket for accessories port (analog & digital)	
	- 1 x Mini USB socket for data transfer/programming	
	- 1 x Socket for battery charger	
	- 1 x Standard USB (memory stick) socket for data transfer	
Approvals	- Complies with European standard CE (Directive 99/5/EC)	
	• EN 55011	
	• EN 61000-4-2: A1 & A2	
	• EN 61000-4-3	
	• EN 61000-4-8: A1	
	• ETSI EN 300 330-2	
	• ETSI EN 301 489-1	
	• ETSI EN 301 489-3	
	- Complies with FCC Rules Part 15	
	CFR 47 part 2	
	CFR 47 Part 15	
Standard Accessories	- USB data cable	
	- 100-240V AC mains charger (Lithium-ion battery)	
	- Soft carry bag	

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	- User handbook
Optional Accessories	- Portable Transmitters: Loc-1Tx, Loc-5STx, Loc-10Tx
	 Sondes (waterproof self-contained transmitters for use in pipes & ducts) D18-33-SR44 - 0.75in(Dia.) x 3.1in(L) (18mm x 80mm), 33 kHz, range 15ft (4.5m), 2 x button cell batteries D38-33-AA - 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 33 kHz, range 16.3ft (5m), 1 x AA battery D38-09-AA - 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 9.82 kHz, range 16.3ft (5m),
	 1 x AA battery D38-83-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 83 kHz, range 16.3ft (5m), 1 x AA battery D64-33-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 33 kHz, range 26ft (8m), 1 x 6LR61 battery
	1 x 6LR61 battery • D64-09-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 9.82 kHz, range 26ft (8m), 1 x 6LR61 battery
	 D64-83-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 83 kHz, range 26ft (8m), 1 x 6LR61 battery
	 D23F-512-AA / D23F-640-AA – 1in(Dia.) x 18in(L) (23mm x 456mm), 512Hz or 640Hz, range 20ft (7m), flexible sonde in three sections for use in cast-iron as well as non-metallic pipes, 1 x AA battery
	- A-frame USB (for sheath fault finding)
	- Remote Antenna (USB)
	- Custom Bluetooth Module (Easy fit)
	- GPS Module (Requires custom Bluetooth module above)
	- Vehicle charging lead (Lithium-ion battery)

C. Operational

Item	Parameter
Information Displayed	- Push button depth on marker
	- Marker reference number and icon
	- Response to marker ball
	- Circular bar graph and variable pitch tone to indicate signal strength
	- Manual EMS (Electronic Marker System) gain control
	- Signal strength - moving bar graph & numeric value
	- Mode indication ("Peak", "Null", "Broad Peak", "Sonde" and "Peak with proportional left/right arrows" location)
	- Proportional left/right indication
	- Compass: full 360° line direction indicator
	- Plug and play automatic recognition of accessories
	- Measurement of depth and current on target line
	- Line location - depth & current measurement
	- Sonde location - depth measurement
	- Gain level (in dB)
	- Frequency selected
	- Battery condition
	- Speaker volume







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	- Operating frequency					
	- Bluetooth and GPS status					
	- Configuration menu & submenus					
	_			B accessories so	oftware revision	
	•		art-up screen	D doocoonico oc	ntware revision	
Configuration			•	er to configure	alternatively use Vivax	-Metrotech
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	_		cv selection to to	ggle by "f" pushb	outton	
	·	•		to toggle by "M" p		
	3. Sonde /			ie teggie e, p		
			re (feet/meter)			
				z or 60Hz environ	ments	
			- normal/modula			
	7. Langua					
	_	-	pth/current optio	ns		
	9. Loudspe	eaker le	evel			
	10. Backligh					
	11. Bluetoo	th pairi	ng if fitted			
	12. Auto shut down – after two or five minutes or never					
Operating Frequencies	Frequency lis	t define	ed below.			
Pre-defined Marker	Ref #		Utility		Frequency (Hz)	
Ball Frequencies	1	Power	(Red)		169,800	
	2	Water	(Blue)		145,700	
	3	Sanita	ry (Green)		121,600	
	4	Telephone (Orange) 101,400				
	5 Gas (Yellow) 83,000					
	6 CATV (Orange/Black) 77,000					
	7 Non-potable Water (Purple) 66,350					
	8	EDF (I	French Power) (ı	natural)	40,000	
	9	Energ	y (Seba) Power	(Blue/Red)	134,000	
	Note: #9 –	some	markets only			
Pre-defined	Configurable	freque	ncies from 16Hz	to 200 kHz.		
Frequencies for						
vLocML2+ Receiver	_		•		ature called SD (Signal D	•
	addition to the	e abov		l	nbinations of SD frequer	юу.
			SD-USA	256Hz/512Hz		
			SD-EUR	320Hz/640Hz		
		ech Co	rporation retains	the right to make	additions or deletions to	this list at
Operation Made	any time.	1 2 1				
Operating Modes			ocation Receive	r		
1	- Marker Locator					
			diam D		al-Mada Bub : :	
	- Dual mode	e opera	ation: Peak respo	onse combined wi	ith Marker-Ball Detection	ı
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	- Broad Peak
	- Peak with proportional left/right arrows
Gain Control	Manual gain using "+" or "-" with one touch to return to center (60% of FSD)
Performance in	Generally locatable to 6ft (2m) depth
Area of Undistorted Fields	
Performance Using	Locate pinpointing accuracy:
Single Undistorted	- up to 9ft (3m) – 3% of depth
Signal Source	- over 9ft (3m) – 5% of depth
	Depth measurement accuracy:
	- 3% of depth
	Current measurement accuracy:
	- 3% of actual current – up to 9ft (3m)
	- 5% of actual current – over 9ft (3m)
	Depth range :
	- Dependent on strength of signal radiating to locator – generally up to 15ft (5m)

D. Sensitivity

Mode	Sensitivity at 3.2ft (1m)
50Hz/ Power Mode	7.5 mA
Radio Mode	20 μΑ
512Hz / 640Hz	400 μΑ
8 kHz	40 μΑ
32 kHz and Above	25 μΑ

E. Environmental

Item	Parameter	
Temperature Range	Operating : - 4°F to 122°F (-20°C to 50°C)	
	Storage : -40°F to 140°F (-40°C to 60°C)	
Weather Proof	IP54 and NEMA 4	
Shipping Weight	14.7lbs (6.67kg)	
Shipping Dimension	13.2in(L) x 9.3in(W) x 30.5in(H) (335mm x 235mm x 775mm)	

F. Warranty

Item	Parameter
Warranty	12 months

G. Upgrade

Item	Parameter
Software	Software can be upgraded using a PC with USB port. Programs & locator software are
	available via MyLocator2 application. Additional frequencies are available free of charge
	via the MyLocator2 application.









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H. Features

Item	Parameter
Enhanced Features	- Reduced size and weight with enhanced ergonomic design
	Improved power management and lithium-ion rechargeable batteries provide longer battery life (250% more)
	- Auto detects batteries type (Lithium-ion/Alkaline) and displays appropriate status
	- Non-reflective display
	- Enable / disable auto shut off mode
	- USB Data logging (Future feature)
	- Analogue channel (Future feature)

Disclaimer: Product and accessory specification and availability information is subject to change without prior notice.

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