



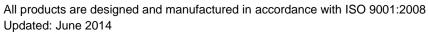
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A. Typical Applications

Item	Parameter
Description	Multi-purpose precision locator receiver
Uses	Locating & pinpointing the position of buried pipes and cables

B. Receiver Assembly

В.	Receiver Assembly	
	Item	Parameter
	Construction	- Carbon fiber reinforced antenna tube
		- High impact thermoplastic (ABS) injection molded housing
	Weight	4.6lbs (2.1kg)
	Dimensions	10.3in(L) x 4.8in(W) x 25in(H) (262mm x 122mm x 639mm)
	Display Type	Sharp TFT LCD 1/4 VGA color display, 3.52in (89mm)
	Receiver Antennas	2 x Peak antennas, 1 x null antenna, 1 x compass antenna
	Batteries	- Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger.
	Options	- Replaceable (6 x standard Alkaline AA batteries) batteries can be used when required
	Battery Life	- Alkaline – typically 12 hours intermittent use at 70°F (21°C)
		- Lithium-ion – typically 40 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 (analogue & digital)
		- 1 x Mini USB socket for data transfer / programming
		- 1 x Socket for battery charger
	Compliance/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
	<u> </u>	• CFR 47 Part 15
	Standard Accessories	- USB data cable
		- 100-240V AC mains charger (Lithium-ion battery)
		- Soft carry bag (Roll around bag if purchased with transmitter)
		- User handbook
	Optional Accessories	- Portable Transmitters: Loc-1Tx, Loc-5Tx, Loc-10Tx, Loc-10TxSIS
		- 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











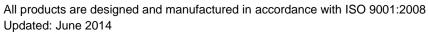
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	 D64-33-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 33 kHz, range 26ft (8m), 1 x 6LR61 battery
	 D64-09-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 9.82 kHz, range 26ft (8m), 1 x 6LR61 battery
	 D64-83-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 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 3 sections for use in cast iron pipes as well as non metallic pipes, 1 x AA battery
-	A-frame USB (for Sheath Fault Finding 3/6Hz only)
-	A-frame analogue – general fault finding, no frequency restriction
-	Remote Antenna USB (standard locating only)
-	Remote Antenna Analogue (signal select, signal direction & standard locating)
-	Custom Bluetooth Module (Easy Fit)
-	Internal GPS Module
-	Vehicle charging lead (Lithium-ion battery)

C. Operational

C.	Operational	
	Item	Parameter
	Information Displayed	- 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
		- Accessory specific custom screen
		- Line location - depth & current measurement
		- Sonde location - depth measurement
		- Gain level (in dB)
		- Frequency and applicable operation selected (Signal Select/Signal Direction)
		- Battery status
		- Speaker volume
		- Operating frequency
		- Bluetooth and GPS status
		- Configuration menu & submenus
		- Customer definable start up screen
		- Magnetic Field Strength (optional feature)
		- Signal Select Field Distortion and Phase Angle (optional feature)
		- Polarized compass arrow for Signal Select and Signal Direction
	Configuration	Intuitive setup menu enables user to configure:
		- Setup frequency selection to toggle by "f" pushbutton
		- Setup location mode selection to toggle by "m" pushbutton
		- Sonde / line location
		- Units of measure (feet/meter)
		- Power and radio modes – 50Hz or 60Hz environments
		- Sound (Pitch) - normal/modulated
		- Language
		- Continuous depth/current options











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	- Loudspeaker level
	- Backlight
	- Bluetooth pairing if fitted
	- Auto shut down – 2 or 5 minutes or never
Internal Data Logging	- At least 1000 records.
	 All parameters stored at each location including Depth, Current, Mode, Gain Setting, and Frequency.
	If connected to GPS (via Bluetooth) data also recorded with coordinates and date time.
	- Files can be saved as .kml, .txt, .xls, .shp., csv.
	- Data transfer program MyLocator2 available from www.vivax-metrotech.com
Operating Frequencies	Frequency set listed below.
Pre-defined Frequencies	Configurable frequencies from 16Hz to 200 kHz.
	Signal Direction at any frequency pair below 2 kHz.
	Signal Select at 491Hz, 982Hz, 8440Hz and 9820Hz.
	Vivax-Metrotech Corporation retains the right to make additions or deletions to this list at
	any time.
Operating Modes	- Auto and Manual Gain (optional)
	- Peak
	- Null with left/right arrows
	- Sonde
	- Broad Peak
	- Peak with proportional left/right arrows
Gain Control	Manual gain using "+" or "-" with one touch to return to center (60% of FSD)
Data Transfer	 Uses vivax-metrotech software application tool available free of charge from www.vivax-metrotech.com. Data can be saved in following format: xlx, txt, fhp, kml (Google earth)
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

D. Sensitivity

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











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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	37lbs (17kg) (with transmitter)
Shipping Dimension	17.5in(L) x 11.2in(W) x 30.1in(H) (765mm x 285mm x 445mm) (with transmitter)

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 will be
	available via MyLocator2.

H. Holux Bluetooth GPS (Optional Accessory)

Item	Parameter
Overview	The M-1200E high performance Bluetooth [™] GPS Receiver which featured with:
	- Built-in rechargeable Lithium-ion battery without external power supply
Weight	- 0.07lbs (30g)
Dimension	- 2.63in(L) x 0.9in(W) x 0.63in(H) (67mm x 23mm x 16mm)
Specification	- Tracks up to 32 satellites
	- Receiver: L1, 1575.42 MHz
	- C/A code: 1.023 MHz
	- Update rate: 1Hz
	- Antenna type: built-in patch antenna
	- Minimum signal tracked: -159dBm
	- On/Off switch: slide switcher
	- Lithium-ion battery lasts for 15 hours of use
	- Accuracy better than 3m when receiving SBAS correction signal
LED Indication	- Bluetooth
	- Navigation update
	- Battery/charger status indication
Temperature Range	- Store Temperature
	• -4°F to 140°F (-20°C to 60°C)
	 -22°F to 176°F (-30°C to 80°C) (Without Lithium-ion battery)
	- Operation Temperature: 14°F to 140°F (-10°C to 60°C)

I. 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 (approx 300% improvement from vLocPro)
	- Auto detects batteries type (Lithium-ion/Alkaline) and displays appropriate status
	- Non-reflective display
	- Enable/Disable auto shut off mode

All products are designed and manufactured in accordance with ISO 9001:2008 Updated: June 2014 $\,$









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- USB data logging (Future feature)
- Analogue channel (Future feature)
- Internal data logging (1000 records)

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

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