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### A. vLocDM2 Typical Applications

Item	Parameter
Description	Pipeline defect mapper receiver and transmitter
Uses	- Locating and pinpointing coating defects on buried pipelines
	- Profiling the CP current distribution on a pipeline network
	- Identification of short circuits from pipelines to other structures
	- Long distance pipeline location
	- Transmitting active signals for the location of coating defects on buried pipes

## B. vLocDM2 Receiver Assembly

B. vLocDM2 Receiver Assembly	
Item	Parameter
Construction	- Carbon fiber reinforced antenna tube
	- High impact thermoplastic (ABS) injection molded housing
	- Removable ABS foot molding containing magnetometer
Weight	6lbs (2.7kg)
Dimension	11.7in(L) x 5.5in(W) x 30in(H) (262mm x 122mm x 750mm)
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, 1 x magnetometer
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 8 hours intermittent use at 70°F (21°C)
	<ul> <li>Lithium-ion – typically 24 hours continuous use at 70°F (21°C) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature.</li> </ul>
Bluetooth	- Plug and play custom Bluetooth interface
External	- 1 x Socket for USB accessories & analogue accessories
Connectors	- 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 (Future feature)
Approvals	- Complies with European standard CE - Complies with FCC Rules Part 15 (Directive 99/5/EC) - CFR 47 part 2 - EN 55011 - CFR 47 Part 15 - 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
Ctondord Assessed	• ETSI EN 301 489-3
Standard Accessories	- Bluetooth Module
	- Holux GPS (Bluetooth connectivity)
	- Transmitter: Loc-150Tx and connection leads
	- A-frame

All products are designed and manufactured in accordance with ISO 9001:2008 Updated: Jun 2012







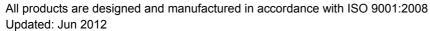


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	- USB data cable
	- 100-240V AC mains receiver charger (for Lithium-ion battery)
	- Soft carry bag (inclusive of accessories bag)
	- User handbook
	- Desktop application (desktop programming data management)
	User selectable configuration management
	Replication of user configuration
Accessories (Optional)	- Remote Antenna USB
	- Sondes (waterproof self-contained transmitters for use in pipes & ducts)
	<ul> <li>D18-33-SR44 - 0.75in(Dia.) x 3.1in(L) (18mm x 80mm), 33 kHz, range 15ft (4.5m), 2 x button cell batteries</li> </ul>
	<ul> <li>D38-33-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 33 kHz, range 16.3ft (5m), 1 x AA battery</li> </ul>
	<ul> <li>D38-09-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 9.82 kHz, range 16.3ft (5m), 1 x AA battery</li> </ul>
	<ul> <li>D38-83-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 83 kHz, range 16.3ft (5m), 1 x AA battery</li> </ul>
	<ul> <li>D64-33-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 33 kHz, range 26ft (8m), 1 x 6LR61 battery</li> </ul>
	<ul> <li>D64-09-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 9.82 kHz, range 26ft (8m), 1 x 6LR61 battery</li> </ul>
	<ul> <li>D64-83-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 83 kHz, range 26ft (8m), 1 x 6LR61 battery</li> </ul>
	<ul> <li>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</li> </ul>

#### C. vLocDM2 Receiver Operational

C. VLOCDM2 Receiver Operational	
Item	Parameter
Information Displayed	- Signal strength - moving bar graph & numeric value
	- Mode indication ("Peak", "Null" and "Peak with proportional left/right arrows" location)
	- Proportional left/right indication
	- Compass: line direction indicator
	- vLocDM2 signal direction
	- Plug and play automatic recognition of accessories
	- Accessory specific custom screen
	- Line location - depth & current measurement
	- Measurement of vLocDM2 mapping current
	- Gain level (in dB)
	- Battery condition
	- Speaker volume
	- Operating frequency
	- Bluetooth and GPS status
	- Configuration menu & submenus









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	- Start up screen – product and USB accessories software revision
	- Customer definable start up screen
	- Distance from last reading (when GPS facility activated)
	- Log number
	- Real time vLocDM2 mapping and on screen graphing (walk back feature)
	- "Walk back feature" giving physical position on graph allowing the user to walk back to
	a point of interest.
	- Real time A-frame fault mapping and on screen graphing
Configuration	Intuitive setup menu enables user to configure vLocDM2 receiver or use MyLocator2 application to configure vLocDM2 receiver:
	Setup frequency selection to toggle by "f" pushbutton
	2. Setup location mode selection to toggle by "M" pushbutton
	3. Units of measure (feet/meter)
	4. Power and radio modes – 50Hz or 60Hz environments
	5. Sound (Pitch) – normal/modulated
	6. Language
	7. Continuous depth/current options
	8. Loudspeaker level
	9. Backlight
	10. Bluetooth pairing if fitted
Internal Data Logging	- At least 1000 records.
	<ul> <li>All parameters stored at each location including Depth, Current, Mode, Gain Setting, and Frequency.</li> </ul>
	<ul> <li>If connected to GPS (via Bluetooth) data also recorded with coordinates and date time.</li> </ul>
	- Files can be saved as .kml, .txt, .xls, .shp, csv
	- Data transfer program MyLocator2 available from www.vivax-metrotech.com
Operating Frequencies	vLocDM2 (magnetometer) frequencies: 3Hz/6Hz , 4Hz/8Hz
	vLocDM2 related locate frequencies: 98Hz, 128Hz, 512Hz, 640Hz
	Configurable frequencies from 16Hz to 200 kHz.
	Vivax-Metrotech Corporation retains the right to make additions or deletions to this list at any time
Operating Modes	- Peak
	- Null
	- Peak with proportional left/right arrows
Gain Control	Manual gain using "+" or "-" with one touch to return to center (60% of FSD)
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:
<u> </u>	·

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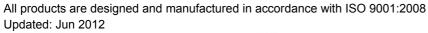








	To Table 1 and 1 a	
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	- 3% of actual current – up to 9ft (3m)	
	- 5% of actual current – over 9ft (3m)	
	Depth range:	
	- Dependent on strength of signal radiating to locator – Generally up to 15ft (5m)	
Compatible With	Loc-150Tx, Loc-10Tx, Loc-5Tx, Loc-1Tx	
Transmitter		











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#### D. Loc-150Tx Transmitter Assembly

Item	Parameter
Construction	High impact ABS
Weight	27.5lbs (12.5kg)
Dimension	16.7in(L) x 10.3in(W) x 12.9in(H) (425mm x 262mm x 328mm)
Display Type	Monochrome dot matrix display 2.4in x 1.3in (60mm x 32mm)
Power Supply	- Cathodic Protection (nominally 26V - 60V DC) (max 14A)
	- 100 – 250V AC mains power (max 4A)
	<ul> <li>or 12V DC external supply or higher (output power is limited when using 12V DC) (max 8A)</li> </ul>
External Connectors	- 100 – 250V AC mains input - three pin "Multi-Con-X" connector (Male)
	- DC Input - two pin "Multi-Con-X" connector (Male)
	- Transmitter output - two pin "Multi-Con-X" connector (Female)
	- Fuse sockets – mains input fuse (5A, 250V), output fuse (10A, 250V)
Output Protection	Output fuse protected against accidental connection to up to AC/DC 250V
Approvals	- Complies with European standard CE - Complies with FCC Rules Part 15 (Directive 99/5/EC) (Pending) (Pending)
	EN 55011     CFR 47 part 2
	• EN 61000-4-3 • CFR 47 Part 15
	• EN 61000-4-2: A1 & A2
	• EN 61000-4-8: A1
	• ETSI EN 300 330-2
	• ETSI EN 301 489-1
	• ETSI EN 301 489-3
Standard Accessories	- 1 x direct connection lead (with two cables each 10ft(3.5m) long with crocodile clips)
(Supplied With	- 1 x DC input lead (with two cables each 10ft (3.5m) long with crocodile clips)
Transmitter)	- 1 x 9ft (3m) mains input lead

#### E. Loc-150Tx Transmitter Operational

Item	Parameter
Information Displayed	- Output Frequency - Output Voltage (info menu)
	- Output Current setting - Operating Temperature (info menu)
	- Output Current
Signal Application	- Direct connection mode only- applies signal directly to the cable by clipping one
Modes	output lead to the pipe, the other to an independent ground or anode bed.
Transmitting Frequencies	- 98Hz, 128Hz, 512Hz, 640Hz, 3Hz/98Hz, 3Hz/128Hz, 4Hz/98Hz, 4Hz/128Hz;
(Varies By Country &	- ELF1-3Hz/6Hz/98Hz;
Market)	- ELF2-3Hz/6Hz/128Hz;
	- ELF3-4Hz/8Hz/98Hz;
	- ELF4-4Hz/8Hz/128Hz;
	- 3Hz/6Hz/512Hz;
	- 3Hz/6Hz/640Hz;

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	- 4Hz/8Hz/512Hz;
	- 4Hz/8Hz/640Hz
	Other multiple frequencies in the range of 3Hz to 2kHz available upon request.
Transmitting Mode	- Powered by AC: 150W
Power Output	- Powered by DC: 12-28V, 50W; > 28V, 150W
Output Voltage	Maximum output voltage = 120V RMS
Output Current	Maximum output current = 4A RMS with up to 2 frequencies. Output limited to 3A RMS with 3 simultaneous frequencies.
Controls	2 Rotary/Push control knobs to select:
	- Frequency
	- Output level
	- Information
	- ACTIVE/STANDBY pushbutton
	One On/OFF pushbutton
Compatible With	vLocDM & vLocDM2
Receivers	

### F. Sensitivity

Mode	Sensitivity at 3.2ft (1m)
3Hz DM Mapping Frequency	1 mA
50Hz/ Power Mode	7.5 mA
Radio Mode	20 μΑ
512Hz / 640Hz	400 μΑ
8 kHz	40 μΑ
32 kHz and Above	25 μΑ

#### G. 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	vLocDM2 Receiver: 12lbs (5.5kg)
	Loc-150Tx Transmitter: 44.1lbs (20kg)
Shipping Dimension	vLocDM2 Receiver: 13.0(L) x 8.7in(W) x 32.7in(H) (330mm x 220mm x 830mm)
	Loc-150Tx Transmitter: 21.7in(L) x 15.2in(W) x 18.3in(H) (550mm x 385mm x 465mm)

#### H. Warranty

Item	Parameter
Warranty	12 months









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### I. Upgrade

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

#### J. A-frame

Item	Parameter		
Construction	Carbon fiber		
Sensitivity	ΡΜΩ		
Weight	4.0lbs (1.80kg)		
Dimension	28.3in(L) x 25.2in(W) x 1.6in(H) (720mm x 640mm x 40mm)		
Weather Proof	IP54		
Shipping Weight	9.9lbs (4.50kg)		
Shipping Dimension	31.5in(L) x 27.8in(W) x 4.5in(H) (800mm x 705mm x 115mm)		

#### K. Holux Bluetooth GPS

R. Holix Bidelootii GF3						
Item	Parameter					
Overview	The M-1200 high performance Bluetooth <sup>TM</sup> GPS Receiver which featured with:					
	- Dual interface (Bluetooth + GPS - mouse)					
	- Compatible with Bluetooth <sup>™</sup> Serial Port Profile (SPP) completely					
	- 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.					
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)					







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#### L. Features

Item	Parameter		
Enhanced Features	- Removable foot		
	- Reduced size and weight with enhanced ergonomic design		
	Improved power management and Lithium-ion rechargeable batteries provide longer battery life		
	- Auto detects batteries type (Lithium-Ion/Alkaline) and displays appropriate status.		
	- Non-reflective display		
	- Enable / Disable auto shut off mode		
	- USB data Logging		
	- Analogue channel		
	- Overload protection		

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

USA	Canada	Europe	Australasia	China
Vivax-Metrotech Corp.	Vivax Canada Inc.	SebaKMT Seba	SebaKMT AUS	Leidi Utility Supply
3251 Olcott Street,	400 Esna Park Drive,	<b>Dynatronic Mess-und</b>	Unit 1, 176 South Creek Road,	(Shanghai) Ltd.
Santa Clara, CA 95054, USA	Unit 17, Markham,	Ortungstechnik GmbH	Cromer NSW 2009, Australia	Rm405 3rd Building No. 641,
	Ontario, L3R 3K2, Canada	DrHerbert-lann-Str. 6,		Tianshan Rd, Shanghai,
T/Free: +1-800-446-3392		96148 Baunach, Germany	Tel: +61-2-9972-9244	China 200336
Tel: +1-408-734-1400	Tel: +1-289-846-3010		Fax: +61-2-9972-9433	
Fax: +1-408-734-1415	Fax: +1-905-752-0214	Tel: +49-9544-680		Tel: +86-21-5187-3880
		Fax: +49-9544-2273	sales@sebakmtaus.com	Fax: +86-21-5168-5880
sales@vxmt.com	CanadianSales@vxmt.com		service@sebakmtaus.com	
www.vivax-metrotech.com	www.vivax-metrotech.com	service@sebakmt.com	www.sebakmtaus.com	info@leidi.cn
		www.sebakmt.com		www.leidi.com



