

A. vLocDM2 Typical Applications

Item	Parameter	₹
Description	Pipeline defect mapper receiver and transmitter	
Uses	- Locating and pinpointing coating defects on but	ried pipelines
	- Profiling the CP current distribution on a pipelin	e network
	- Identification of short circuits from pipelines to o	other structures
	- Long distance pipeline location	
	- Transmitting active signals for the location of co	pating 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)
	 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.
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
	ETSI EN 301 489-3
Standard Accessories	- Bluetooth Module
	- Holux GPS (Bluetooth connectivity)
	- Transmitter: Loc-150Tx and connection leads
	- A-frame

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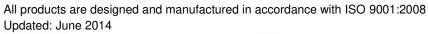




	- USB data cable - 100-240V AC mains receiver charger (for Lithium-ion battery) - Soft carry bag (inclusive of accessories bag) - User handbook - Desktop application (desktop programming data management) - User selectable configuration management - Replication of user configuration
Accessories (Optional)	 Remote Antenna USB Sondes (waterproof self-contained transmitters for use in pipes & ducts) 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 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

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	











	- Start up screen – product and USB accessories software revision UTILITY SOLUTIONS
	- 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
	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.
	 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	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
3	- 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 <i>(3m)</i> – 3% of depth
Signal Source	- over 9ft (3m) – 5% of depth
	Depth measurement accuracy:
	- 3% of depth
	·
	Current measurement accuracy:

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D. Loc-150Tx Transmitter Assembly

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D. Loc-150Tx Transmit	ter 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)	
	- or 12V DC external supply or higher (output power is limited when using 12V DC) (max 8A)	
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; UTILITY SOLUTIONS
	- 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 : - 4ºF to 122ºF (-20ºC to 50ºC)	
	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









Upgrade

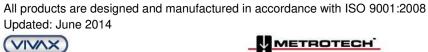
Item	Parameter	<u> </u>
Software	Software can be upgraded using a PC with USB port. Programs & locator software will be available via email. Additional frequencies will be available free of charge.	
	be available via email. Additional frequencies will be	de available free of charge.

J. A-frame

Item	Parameter
Construction	Carbon fiber
Sensitivity	2ΜΩ
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

Item	Parameter		
Overview	The M-1200 high performance Bluetooth TM GPS Receiver which featured with:		
	- Dual interface (Bluetooth + GPS - mouse)		
	- Compatible with Bluetooth [™] 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)		









L. Features

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Item	Parameter	₩.
Enhanced Features	- Removable foot	
	- Reduced size and weight with enhanced ergon	omic design
	- Improved power management and Lithium-ion battery life	rechargeable batteries provide longer
	- Auto detects batteries type (Lithium-Ion/Alkalin	e) 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.



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Updated: June 2014





