

A. Typical Applications

Item	Parameter
Description	Pipe & cable locator transmitter
Uses	Transmitting active signals for the location of buried pipes and cables

B. Transmitter Assembly

Item	Parameter
Construction	High impact ABS
Weight	4.14 lbs (1.88kg) (Excluding battery)
Dimension	14.6in(L) x 4.5in(W) x 3.3in(H) (370mm x 115mm x 85 mm)
Power Supply	- Standard battery pack - using 6 x alkaline "D" cells
Battery Life	At 70°F (21°C) - continuous use Output Power Alkaline 1 watt > 60 hours
External Connectors	- 1 x 3 pin connection socket – (XLR)
Output Protection	Output protected against accidental connection to up to 240V AC (50/60Hz)
Approvals	- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • EN 61000-6-4: 2007 • EN 61000-4-3: 2006 • EN 61000-4-2: 1995 A1 & A2 • EN 61000-4-8: 1994 A1 • ETSI EN 300 330-2: 2006 • ETSI EN 301 489-1: 2005 • ETSI EN 301 489-3: 2002 - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2: 2004 • CFR 47 Part 15: 2006 • ANSI C63.4: 2003
Standard Accessories (Supplied With Transmitter)	- 1 x direct connection lead (XLR plug with two cables each 10ft (3.5m) long with crocodile clips) - 1 x ground lead (30ft (10m) long) - 1 x T type ground stake
Optional Accessories	- Transmitter only "shoulder bag" - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp

C. Operational

Item	Parameter
Location Modes	- Induction mode – applies signal inductively using internal antenna - Direct connection mode - applies signal directly to the cable by clipping one output lead to the cable, the other to an independent ground - Clamp mode – applies signal using an inductive clamp (toroid) that is placed around

	<p>the target cable</p> <p>* Modes are selected automatically when accessories are plugged in.</p> <p>* Default mode (no accessories) is induction.</p>
Transmitting Frequency by Mode	<p>- Induction mode / Direct connection mode / Clamp mode:</p> <p>83.1kHz (83,077.5Hz)</p>
Transmitting Mode Power output	<p>In accordance with FCC part 15:</p> <p><i>1 watt – in High output level</i></p> <p><i>1/3watt – in Low output level</i></p>
Output Voltage	Maximum output voltage = 60V RMS
Output Current	Maximum output current = 150mA RMS constant current
Audio indication	<ul style="list-style-type: none"> - Connection quality – variable beep rate sound showing the better signal applied - Low battery warning
Controls	<p>Use pushbuttons to select:</p> <ul style="list-style-type: none"> - Power button: On / Off - Output level button: Low / High - Audio button: Off / Low / High
Compatible With Receivers	vLocPro, vLocML, vLocPro2, vLocML2, VM-810, 810DX, 810 classic
Compatible Accessories	Signal Clamp, 2in Clamp, 4in Clamp, 5in Clamp, Flexible Clamp

D. 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	18.7lbs (8.5kg) (With Receiver) (estimation)
Shipping Dimension	22.7in(L) x 13.8in(W) x 4.3in(H) (577mm x 350mm x 109mm) (estimation)

E. Warranty

Item	Parameter
Warranty	12 months(Limited warranty)

A. Typical Applications

Item	Parameter
Description	Single high frequency locator receiver
Uses	Locating & pinpointing the position of buried pipes and cables

B. Receiver Assembly

Item	Parameter
Construction	<ul style="list-style-type: none"> - Aluminum - High impact thermoplastic (ABS) injection molded housing
Weight	3lbs (1.36kg)(with battery)
Dimensions	Collapsed: 22in(L) x 8.3in(W) x 11in(H) (560mm x 210mm x 280mm) Extended: 31.1in(L) x 8.3in(W) x 11in(H) (790mm x 210mm x 280mm)
Display Type	Black & white TFT 2.7" LCD WQVGA display (400 x 240 pixel)
Receiver Antennas	3 x Peak antennas, 1 x compass antenna
Batteries	2 x Standard D-Cell alkaline batteries
Battery Life	Alkaline – typically 65 hours continuous use at 70°F (21°C)
External Connectors	<ul style="list-style-type: none"> - 1 x 3.5mm Headphone jack (Use headphone with volume control) - 1 x Mini USB socket for software update - 1 x 4 pin Accessories jack
Compliance/Approvals	<ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • EN 61000-6-4: 2007 • EN 61000-4-3: 2006 • EN 61000-4-2: 1995 A1 & A2 • EN 61000-4-8: 1994 A1 • ETSI EN 300 330-2: 2006 • ETSI EN 301 489-1: 2005 • ETSI EN 301 489-3: 2002 - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2: 2004 • CFR 47 Part 15: 2006 • ANSI C63.4: 2003
Standard Accessories	<ul style="list-style-type: none"> - Soft carry bag (Roll around bag if purchased with transmitter) - User handbook
Optional Accessories	<ul style="list-style-type: none"> - Headphone - Mini USB cable - Clamp

C. Operational

Item	Parameter
Information Displayed	<ul style="list-style-type: none"> - Signal strength : Numeric value - Distance sensitive Left/Right Centerline offset needle indicator - Compass: +/- 90° line direction indicator - Battery indicator - Depth and current reading
Sound Indication	<ul style="list-style-type: none"> - Tones for Left or Right - Fading when close to centerline - Silence when centered or signal is too weak
Configuration	Easy One button operation:

	<ul style="list-style-type: none"> - Automatic back light control - Short press – On - Long press – Off - Short press when unit is switched On – Depth and Current reading
Operating Frequencies	83.1kHz (83,077.5 Hz)
Gain Control	Automatic Gain control
Performance Using Single Undistorted Signal Source	Trace accuracy:
	<ul style="list-style-type: none"> - Distance Sensitive Left/Right Guidance™
	Current measurement accuracy:
	<ul style="list-style-type: none"> - 5% of actual current – up to 10ft (3m) - 10% of actual current – up to 20ft (6m)
	Depth measurement accuracy:
	<ul style="list-style-type: none"> - 10 feet (3m): +/-5% or 2" - 20 feet (10m): +/-10%
	Depth range: Dependent on strength of signal radiating to locator
Compatible with Transmitter	Loc-1Tx, Loc-5Tx, Loc-10Tx, 810, 810 classic, 810DX

D. Sensitivity

Item	Parameter
Mode	Sensitivity at 3.2ft (1m)
83.1kHz	2 µA with fully functional L/R
Depth operational	Minimum 20µA

E. Environmental

Item	Parameter
Temperature Range	Operating: -4°F to 122°F (-20°C to 50°C)
Weather Proof	IP54 and NEMA 4
Shipping Weight	18.7lbs (8.5kg) (With transmitter) (estimation)
Shipping Dimension	22.7in(L) x 13.8in(W) x 4.3in(H) (577mm x 350mm x 109mm) (estimation)

F. Warranty

Item	Parameter
Warranty	12 months

G. Upgrade

Item	Parameter
Software	Software can be upgraded using a PC with USB port.

H. Features

Item	Parameter
Enhanced Features	<ul style="list-style-type: none"> - New look and ergonomic design - One button operation - Compass: +/- 90° line direction indicator - Automatic back light control - Excellent isolation from adjacent utilities - Efficient high power 1 watt transmitter facilitates long distance locating - Transmitter impedance matching maximizes battery life

	<ul style="list-style-type: none"> - Saves you time – Simultaneous peak/null - Shows you the path – Left/right guidance system and audible tone pinpoints your utility and indicates strength of transmitted signal – digital signal strength - No manual gain adjustments – Fully automated - Determines depth – Quick and easy push button depth lightweight, and all readouts are line-of-sight, reducing user fatigue
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Disclaimer: Product and accessory specification and availability information is subject to change without prior notice.

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<p>USA Vivax-Metrotech Corp. 3251 Olcott Street, Santa Clara, CA 95054, USA</p> <p>T/Free: +1-800-446-3392 Tel: +1-408-734-1400 Fax: +1-408-734-1415</p> <p>sales@vxmt.com www.vivax-metrotech.com</p>	<p>Canada Vivax Canada Inc. 400 Esna Park Drive, Unit 17, Markham, Ontario, L3R 3K2, Canada</p> <p>Tel: +1-289-846-3010 Fax: +1-905-752-0214</p> <p>CanadianSales@vxmt.com www.vivax-metrotech.com</p>	<p>Europe SebaKMT Seba Dynatronic Mess-und Ortungstechnik GmbH Dr.-Herbert-lann-Str. 6, 96148 Baunach, Germany</p> <p>Tel: +49-9544-680 Fax: +49-9544-2273</p> <p>service@sebakmt.com www.sebakmt.com</p>	<p>Australasia SebaKMT AUS Unit 1, 176 South Creek Road, Cromer NSW 2009, Australia</p> <p>Tel: +61-2-9972-9244 Fax: +61-2-9972-9433</p> <p>sales@sebakmtaus.com service@sebakmtaus.com www.sebakmtaus.com</p>	<p>China Leidi Utility Supply (Shanghai) Ltd. Rm405 3rd Building No. 641, Tianshan Rd, Shanghai, China 200336</p> <p>Tel: +86-21-5187-3880 Fax: +86-21-5168-5880</p> <p>info@leidi.cn www.leidi.com</p>
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All products are designed and manufactured in accordance with ISO 9001:2008
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