

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	11lbs (5kg)												
Dimension	16.5in(L) x 7.1in(W) x 7.3in(H) (420mm x 180mm x 185mm)												
Display Type	Monochrome dot matrix display 2.4in x 1.3in (60mm x 32mm)												
Power Supply	- Standard battery pack – using 12 x alkaline “D” cells or Ni-MH rechargeable battery pack – 14.4V												
Battery Life	At 70°F (21°C) - continuous use <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Output Power</th> <th>Alkaline</th> <th>Ni-MH (Rechargeable)</th> </tr> </thead> <tbody> <tr> <td>1 watt</td> <td>20 hours</td> <td>50 hours</td> </tr> <tr> <td>5 watt</td> <td>6 hours</td> <td>10 hours</td> </tr> <tr> <td>10 watt</td> <td>3 hours</td> <td>6 hours</td> </tr> </tbody> </table> <p><i>Ni-MH batteries will withstand 500 charging life cycles</i></p>	Output Power	Alkaline	Ni-MH (Rechargeable)	1 watt	20 hours	50 hours	5 watt	6 hours	10 hours	10 watt	3 hours	6 hours
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External Connectors	- 1 x 3 pin connection socket–(XLR) - 1 x socket for battery charger & power in - 1 x fuse (output protection) 1.25A/250V, 0.2in(Dia.) x 0.8in(L) (5mm x 20mm) - 1 x USB socket (in base of main transmitter body for loading operating software)												
Output Protection	Output protected against accidental connection to up to 240V AC												
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)	<ul style="list-style-type: none"> - 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 - If purchased with receiver a soft roll round carry bag (with wheels) is supplied
Optional Accessories	<ul style="list-style-type: none"> - Rechargeable battery tray – comprising 12 x D cell Nickel Metal Hydride batteries and charger (100-240V AC – 2A) - 12V DC vehicle power lead for powering the transmitter from a vehicle (not charging) - 100-240V AC power supply for powering the transmitter from mains power (not charging the transmitter) - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - 9in (approx. 228mm) flexible clamp - 18in (approx. 450mm) flexible clamp - LPC separation filter (to connect and use transmitter on lines carrying up to 240V AC) - Soft carry bag (with no wheels)

C. Operational

Item	Parameter
Information Displayed	<ul style="list-style-type: none"> - Current (numeric) - Volts - Resistance - Animation icon confirming connection mode (Induction, Direct connection, Clamp) - Frequency of output signal - Bar graph showing proportion of signal successfully applied - High voltage warning if volts on line exceed 30V AC - Loudspeaker volume (3 levels & off) - Battery condition icon
Location Modes	<ul style="list-style-type: none"> - 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 the target cable. <p>* Modes are selected automatically when accessories are plugged in. * Default mode (no accessories) is induction.</p>

<p>Transmitting Frequency By Mode</p>	<p>- Induction mode is determined by the hardware specified and must be defined at time of purchase. The induction mode options are as follow:</p> <table border="1" data-bbox="528 327 1059 622"> <tr><td>Set "A"</td><td>8 kHz, 32.8 kHz, 65.5 kHz</td></tr> <tr><td>Set "B"</td><td>32.8 kHz, 38 kHz, 78.12 kHz</td></tr> <tr><td>Set "C"</td><td>8.19 kHz, 32.8 kHz, 78.12 kHz</td></tr> <tr><td>Set "D"</td><td>32.8 kHz, 65.5 kHz, 83.1 kHz</td></tr> <tr><td>Set "E"</td><td>8.44 kHz, 32.8 kHz, 82.5 kHz</td></tr> <tr><td>Set "F"</td><td>32.8 kHz, 65.5 kHz, 200 kHz</td></tr> <tr><td>Set "G"</td><td>32.8 kHz, 65.5 kHz, 78.1 kHz</td></tr> </table> <p>- Direct connection mode are as follows – frequencies used regularly (favorites) can be selected - so that they are the only ones included in the frequency selection mode.</p> <table border="1" data-bbox="528 748 1358 1263"> <tr><td>+ FF – High (3Hz & 6Hz)</td><td>9.5 kHz (9,500Hz)</td></tr> <tr><td>+ FF – Low (3Hz & 6Hz)</td><td>9.82 kHz (9,820Hz)</td></tr> <tr><td></td><td>32.8 kHz (31,768Hz)</td></tr> <tr><td>256Hz</td><td>38 kHz (38,000Hz)</td></tr> <tr><td>440Hz</td><td>65.5 kHz (65,536Hz)</td></tr> <tr><td>484Hz</td><td>78.1 kHz (78,125Hz)</td></tr> <tr><td>491Hz</td><td></td></tr> <tr><td>512Hz</td><td>82.5 kHz (82,488Hz)</td></tr> <tr><td>640Hz</td><td>83.1 kHz (83,077Hz)</td></tr> <tr><td>982Hz</td><td>89 kHz (89,000Hz)</td></tr> <tr><td>8.19 kHz (8,192Hz)</td><td>131 kHz (131,072Hz)</td></tr> <tr><td>8.44 kHz (8,440Hz)</td><td>200 kHz (200,000Hz)</td></tr> </table> <p>Signal Direction –will have two combinations of SD frequency.</p> <table border="1" data-bbox="528 1323 855 1406"> <tr><td>SD-USA</td><td>256Hz/512Hz</td></tr> <tr><td>SD-EUR</td><td>320Hz/640Hz</td></tr> </table> <ul style="list-style-type: none"> • Dual frequency – menu selectable – two frequencies can be transmitted simultaneously. <p>- Clamp mode When direct connection modes are added to the “favorites” frequency, toggle any frequency selected that falls in the range 8.19kHz to 83.1kHz will automatically be configured in the “Clamp mode” selection.</p>	Set "A"	8 kHz, 32.8 kHz, 65.5 kHz	Set "B"	32.8 kHz, 38 kHz, 78.12 kHz	Set "C"	8.19 kHz, 32.8 kHz, 78.12 kHz	Set "D"	32.8 kHz, 65.5 kHz, 83.1 kHz	Set "E"	8.44 kHz, 32.8 kHz, 82.5 kHz	Set "F"	32.8 kHz, 65.5 kHz, 200 kHz	Set "G"	32.8 kHz, 65.5 kHz, 78.1 kHz	+ FF – High (3Hz & 6Hz)	9.5 kHz (9,500Hz)	+ FF – Low (3Hz & 6Hz)	9.82 kHz (9,820Hz)		32.8 kHz (31,768Hz)	256Hz	38 kHz (38,000Hz)	440Hz	65.5 kHz (65,536Hz)	484Hz	78.1 kHz (78,125Hz)	491Hz		512Hz	82.5 kHz (82,488Hz)	640Hz	83.1 kHz (83,077Hz)	982Hz	89 kHz (89,000Hz)	8.19 kHz (8,192Hz)	131 kHz (131,072Hz)	8.44 kHz (8,440Hz)	200 kHz (200,000Hz)	SD-USA	256Hz/512Hz	SD-EUR	320Hz/640Hz
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<p>Transmitting Mode Power Output</p>	<p>In accordance with FCC part 15:</p> <ul style="list-style-type: none"> - Frequencies under 45 kHz - 10 watts - Frequencies over 45 kHz - 1 watt 																																										
<p>Output Voltage</p>	<p>Maximum output voltage = 36V RMS</p>																																										
<p>Output Current</p>	<p>Maximum output current = 1A RMS</p>																																										

Audio Indication	<ul style="list-style-type: none"> - Connection quality – Fast beep sound showing the better signal applied - Low battery warning - Beep to confirm action - Long beep to confirm “set”
Controls	<p>Use pushbuttons to select:</p> <ul style="list-style-type: none"> - Frequency (favorites) - Output level - Information (volts & resistance) / Setting (volume , frequency & dual mode) <p>“+” and “-” pushbuttons to step through displayed menu.</p> <p>Selection confirmed on exit or after 3 seconds with no button pressed. To confirm and exit the frequency selection press “information button”.</p>
Compatible With Receivers	vLocPro, vLocDM, vLocML

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	38.6lbs (17.5kg)
Shipping Dimension	30.1in(L) x 17.5in(W) x 11.2in(H) (765mm x 445mm x 285mm)

E. Warranty

Item	Parameter
Warranty	12 months (excluding alkaline batteries)

F. Upgrade

Item	Parameter
Software	<p>Software can be upgraded by using a PC with an USB connection. Initially install software is available via email or CD. Additional transmitter direct connection frequencies can be supplied at no charge. Non standard INDUCTION frequency combinations are charged as a hardware modification will be required.</p> <p>The battery module has to be removed to give access to the USB socket at the underside of the transmitter.</p>

G. Loc-10Tx Rechargeable Batteries With Tray Accessory

Item	Parameter
Description	10W transmitter rechargeable batteries with tray
Weight	11lbs (3.2kg)

Dimension	16.5in(L) x 6.8in(W) x2.6in(H) (420mm x 172mm x 70mm)
Batteries	12 x rechargeable D cell (Ni-MH) batteries
Temperature Range	Operating : 0°F to 122°F (0°C to 50°C) Storage : -4°F to 140°F (-20°C to 60°C)
Warranty	12 months

Disclaimer: All product availability or product accessory information is subject to change without notice.

Notes:

United State of America	Europe
<p>Vivax-Metrotech Corporation 3251 Olcott Street, Santa Clara, CA 95054, USA Website : www.vivax-metrotech.com</p> <p>Sales & Sales Support: T/Free : +1-800-446-3392 Tel : +1-408-734-1400 Fax : +1-408-734-1415 Email : sales@vxmt.com</p> <p>Application Support: T/Free : +1-800-624-6210 Tel : +1-408-454-7159 Fax : +1-408-743-5597 Email : applications@vxmt.com</p> <p>Service & Repairs: T/Free : +1-800-638-7682 Tel : +1-408-962-9990 Fax : +1-408-734-1799 Email : service@vxmt.com</p> <p>All Other Department: T/Free : +1-877-330-1647 Tel : +1-408-734-3880 Fax : +1-408-962-9993</p>	<p>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 Website : www.sebakmt.com Email : service@sebakmt.com</p>
	<p>Australasia</p>
	<p>SebaKMT AUS Unit 1, 176 South Creek Road, Cromer NSW 2009, Australia</p> <p>Tel : +61-2-9972-9244 Fax : +61-2-9972-9433 Website : www.sebakmtaus.com Email : sales@sebakmtaus.com service@sebakmtaus.com</p>
	<p>China</p>
<p>Canada</p> <p>Vivax Canada Inc. 400 Esna Park Drive, Unit 17, Markham, Ontario, L3R 3K2, Canada</p> <p>Tel : +1-289-846-3010 Website : www.vivax-metrotech.com Email : CanadianSales@vxmt.com</p>	<p>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 Website : www.leidi.com Email : info@leidi.cn</p>