

Transmitters	Loc-1Tx	Loc-5Tx	Loc-10Tx
<b>Specifications</b>			
<b>Typical Applications</b>	Pipe & cable locator transmitter Transmitting active signals for the location of buried pipes and cables		
<b>Construction</b>	High impact ABS		
<b>Transmitter Assembly</b>			
<b>Weight (Excluding Battery)</b>	3.7lbs (1.65kg)	4.8lbs (2.16kg)	11lbs (5kg)
<b>Dimension</b>	9.6in(L) x 9.6in(W) x 2.2in(H) (245mm x 243mm x 57.5mm)	12.5in(L) x 9.6in(W) x 2.2in(H) (318mm x 243mm x 57.5mm)	16.5in(L) x 7.1in(W) x 7.3in(H) (420mm x 180mm x 185mm)
<b>Display Type</b>	LEDs light	- Monochrome display (LED backlight) - 2.5in x 0.6in (65mm x 16mm), 16 character x 2 lines	- Monochrome dot matrix graphic LCD display (LED backlight) - 2.4in x 1.3in (60mm x 32mm)
<b>Power Supply</b>	4 x alkaline "D" cells	- 8 x alkaline "D" cells - Ni-MH rechargeable battery pack	- 12 x alkaline "D" cells - Ni-MH rechargeable battery pack – 14.4V - 12-16V external DC power
<b>Battery Life</b>	At 70°F (21°C) - continuous use <b>Output Power</b> <b>Alkaline</b> 1/3 watt                      > 80 hours	At 70°F (21°C) - continuous use <b>Output Power</b> <b>Alkaline</b> <b>Ni-MH (Rechargeable)</b> 1 watt                      20 hours      50 hours 5 watt                      4 hours      10 hours <i>Ni-MH batteries will withstand 500 charging life cycles</i>	At 70°F (21°C) - continuous use <b>Output Power</b> <b>Alkaline</b> <b>Ni-MH (Rechargeable)</b> 1 watt                      20 hours      50 hours 5 watt                      6 hours      10 hours 10watt                      3 hours      6 hours <i>Ni-MH batteries will withstand 500 charging life cycles</i>
<b>External Connectors</b>	- 1 x 3 pin connection socket – (XLR) - 1 x fuse (output protection) 400mA (0.2in(D) x 0.8in(L) (5mm x 20mm)) - 1 x USB socket (on the front panel of transmitter for loading operating software)	- 1 x 3 pin connection socket – (XLR) - 1 x fuse (output protection) 1A (0.2in(D) x 0.8in(L) (5mm x 20mm)) - 1 x USB socket - 1 x socket for battery charger (rechargeable battery pack) or 12V DC power in (Alkaline battery pack)	- 1 x 3 pin connection socket –(XLR) - 1 x fuse (output protection) 1.5A/250V, 0.2in(Dia.) x 0.8in(L) (5mm x 20mm) - 1 x USB socket - 1 x socket for battery charger & 12V DC power in
<b>Output Protection</b>	Output protected against accidental momentary connection to up to 240V AC		
<b>Approvals</b>	- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> <li>EN 55011</li> <li>EN 61000-4-2: A1 &amp; A2</li> <li>EN 61000-4-3</li> <li>EN 61000-4-8: A1</li> <li>ETSI EN 300 330-2</li> <li>ETSI EN 301 489-1</li> <li>ETSI EN 301 489-3</li> </ul>	- Complies with FCC Rules Part 15 <ul style="list-style-type: none"> <li>CFR 47 part 2</li> <li>CFR 47 Part 15</li> </ul>	
<b>Standard Accessories (Supplied With Transmitter)</b>	- 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		

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<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>- 2in (50mm) transmitter clamp</li> <li>- 4in (100mm) transmitter clamp</li> <li>- 5in (125mm) transmitter clamp</li> <li>- LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC)</li> <li>- Transmitter only "shoulder bag"</li> </ul>	<ul style="list-style-type: none"> <li>- 2in (50mm) transmitter clamp</li> <li>- 4in (100mm) transmitter clamp</li> <li>- 5in (125mm) transmitter clamp</li> <li>- LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC)</li> <li>- Transmitter only "shoulder bag"</li> <li>- Rechargeable battery pack – comprising 8 x D cell Ni-MH batteries and charger (100-240V AC – 1.5A)</li> <li>- 12V DC vehicle power lead for powering the transmitter from a vehicle (not charging the transmitter)</li> <li>- 100-240V AC power supply for powering the transmitter from mains power (not charging the transmitter)</li> </ul>	<ul style="list-style-type: none"> <li>- 2in (50mm) transmitter clamp</li> <li>- 4in (100mm) transmitter clamp</li> <li>- 5in (125mm) transmitter clamp</li> <li>- LPC separation filter (to connect and use transmitter on lines carrying up to 240V AC)</li> <li>- Soft carry bag (with no wheels)</li> <li>- Rechargeable battery tray – comprising 12 x D cell Ni-MH batteries and charger (100-240V AC – 1.5A)</li> <li>- 12V DC vehicle power lead for powering the transmitter from a vehicle (not charging)</li> <li>- 100-240V AC power supply for powering the transmitter from mains power (not charging the transmitter)</li> </ul>
<b>Rechargeable Batteries Pack Accessory</b>			
<b>Description</b>	--	5W transmitter rechargeable batteries pack	10W transmitter rechargeable batteries with tray
<b>Weight</b>	--	3.31lbs (1.5kg)	11lbs (3.2kg)
<b>Dimension</b>	--	8.9in(L) x 5.9in(W) x 2.3in(H) (225mm x 150mm x 59mm)	16.5in(L) x 6.8in(W) x 2.6in(H) (420mm x 172mm x 70mm)
<b>Batteries</b>	--	8 x rechargeable D cell (Ni-MH) batteries	12 x rechargeable D cell (Ni-MH) batteries
<b>Temperature Range</b>	--	Operating: -4°F to 122°F (-20°C to 50°C) Storage: -40°F to 140°F (-40°C to 60°C)	Operating: -4°F to 122°F (-20°C to 50°C) Storage: -40°F to 140°F (-40°C to 60°C)
<b>Warranty</b>	--	12 months	12 months
<b>Operational</b>			
<b>Information Displayed</b>	<ul style="list-style-type: none"> <li>- Frequency (LED light)</li> <li>- Output level (LED light)</li> <li>- Battery status (LED light)</li> <li>- Beeper volume (2 levels &amp; off)</li> </ul>	<ul style="list-style-type: none"> <li>- Output current (numeric)</li> <li>- Volts</li> <li>- Resistance</li> <li>- Impedance</li> <li>- Frequency of output signal</li> <li>- High voltage warning if volts on line exceed RMS 36V</li> <li>- Beeper volume (3 levels &amp; off)</li> <li>- Battery condition</li> <li>- Type of connection</li> </ul>	<ul style="list-style-type: none"> <li>- Current (numeric)</li> <li>- Volts</li> <li>- Resistance</li> <li>- Frequency of output signal</li> <li>- High voltage warning if volts on line exceed 30V AC</li> <li>- Beeper volume (3 levels &amp; off)</li> <li>- Battery condition icon</li> <li>- Bar graph showing proportion of signal successfully applied</li> <li>- Animation icon confirming connection mode (Induction, Direct connection, Clamp)</li> </ul>
<b>Location Modes</b>	<ul style="list-style-type: none"> <li>- <b>Induction mode</b> – applies signal inductively using internal antenna</li> <li>- <b>Direct connection mode</b> - applies signal directly to the cable by clipping one output lead to the cable, the other to an independent ground</li> <li>- <b>Clamp mode</b> – applies signal using an inductive clamp (toroid) that is placed around the target cable</li> </ul> <p>* Modes are selected automatically when accessories are plugged in. * Default mode (no accessories) is induction.</p>		

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<p data-bbox="112 804 225 825"><b>Clamp Mode</b></p>	<p data-bbox="402 804 842 847">Clamp operational between 8 kHz and 83k based on configuration.</p> <table border="1" data-bbox="406 850 929 1302"> <tr> <td>A002</td> <td>8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz)</td> </tr> <tr> <td>A006</td> <td>8.19 kHz (8,192Hz) 83.1 kHz (83,077Hz)</td> </tr> <tr> <td>A010</td> <td>8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz) 65.5 kHz (65,536Hz)</td> </tr> <tr> <td>A017</td> <td>8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz)</td> </tr> <tr> <td>A018</td> <td>8.19 kHz (8,192Hz) 83.1 kHz (83,077Hz)</td> </tr> <tr> <td>A019</td> <td>9.82 kHz (9,820Hz) 83.1 kHz (83,077Hz)</td> </tr> <tr> <td>A020</td> <td>8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz) 83.1 kHz (83,077Hz)</td> </tr> </table>	A002	8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz)	A006	8.19 kHz (8,192Hz) 83.1 kHz (83,077Hz)	A010	8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz) 65.5 kHz (65,536Hz)	A017	8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz)	A018	8.19 kHz (8,192Hz) 83.1 kHz (83,077Hz)	A019	9.82 kHz (9,820Hz) 83.1 kHz (83,077Hz)	A020	8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz) 83.1 kHz (83,077Hz)	<p data-bbox="959 804 1470 874">Clamp compatible with 8 kHz, 8.19 kHz, 8.44 kHz, 9.5 kHz, 9.82 kHz, 29.43 kHz, 32.8 kHz, 38 kHz, 65.5 kHz, 78.12 kHz, 80.43 kHz, 82.5 kHz, and 83.1 kHz.</p> <table border="1" data-bbox="963 877 1461 1433"> <tr> <td>B001</td> <td>8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)</td> </tr> <tr> <td>B002</td> <td>8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)</td> </tr> <tr> <td>B003</td> <td>8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)</td> </tr> <tr> <td>B004</td> <td>8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)</td> </tr> <tr> <td>B005</td> <td>8.19 kHz(8,192Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz) 38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)</td> </tr> <tr> <td>B006</td> <td>8.19 kHz(8,192Hz) 32.8 kHz (32,768Hz)</td> </tr> </table>	B001	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)	B002	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)	B003	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)	B004	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)	B005	8.19 kHz(8,192Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz) 38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)	B006	8.19 kHz(8,192Hz) 32.8 kHz (32,768Hz)	<p data-bbox="1513 804 2040 874">Clamp compatible with 8.19 kHz, 8.44 kHz, 9.5 kHz, 9.82 kHz, 29.43 kHz, 32.8 kHz, 38 kHz, 65.5 kHz, 78.12 kHz, 80.43 kHz, 82.5 kHz and 83.1 kHz</p> <table border="1" data-bbox="1517 877 2040 1433"> <tr> <td>C011</td> <td>8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz)</td> <td>65.5 kHz (65,536Hz)</td> </tr> <tr> <td>C012</td> <td>32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)</td> <td>8.19 kHz(8,192Hz)</td> </tr> <tr> <td>C013</td> <td>8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz)</td> <td>65.5 kHz (65,536Hz) 83.1 kHz (83,077Hz)</td> </tr> <tr> <td>C111</td> <td>8.19 kHz(8,192Hz) 8.44 kHz (8,440Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz)</td> <td>38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)</td> </tr> <tr> <td>C113</td> <td>8.19 kHz(8,192Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz)</td> <td>38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)</td> </tr> <tr> <td>C211</td> <td>8.19 kHz (8,192Hz) 8.44 kHz (8,440Hz) 9.82 kHz (9,820Hz) 32.8 kHz (32,768Hz)</td> <td>65.5 kHz (65,536Hz) 82.5 kHz (82,488Hz) 83.1 kHz (83,077Hz)</td> </tr> <tr> <td>C241</td> <td>8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz)</td> <td>65.5 kHz (65,536Hz) 83.1 kHz (83,077Hz)</td> </tr> <tr> <td>C242</td> <td>8.19 kHz (8,192Hz)</td> <td>65.5 kHz (65,536Hz)</td> </tr> </table>	C011	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz)	65.5 kHz (65,536Hz)	C012	32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)	8.19 kHz(8,192Hz)	C013	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz)	65.5 kHz (65,536Hz) 83.1 kHz (83,077Hz)	C111	8.19 kHz(8,192Hz) 8.44 kHz (8,440Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz)	38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)	C113	8.19 kHz(8,192Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz)	38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)	C211	8.19 kHz (8,192Hz) 8.44 kHz (8,440Hz) 9.82 kHz (9,820Hz) 32.8 kHz (32,768Hz)	65.5 kHz (65,536Hz) 82.5 kHz (82,488Hz) 83.1 kHz (83,077Hz)	C241	8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz)	65.5 kHz (65,536Hz) 83.1 kHz (83,077Hz)	C242	8.19 kHz (8,192Hz)	65.5 kHz (65,536Hz)																		
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B002	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)																																																																						
B003	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)																																																																						
B004	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)																																																																						
B005	8.19 kHz(8,192Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz) 38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)																																																																						
B006	8.19 kHz(8,192Hz) 32.8 kHz (32,768Hz)																																																																						
C011	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz)	65.5 kHz (65,536Hz)																																																																					
C012	32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)	8.19 kHz(8,192Hz)																																																																					
C013	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz)	65.5 kHz (65,536Hz) 83.1 kHz (83,077Hz)																																																																					
C111	8.19 kHz(8,192Hz) 8.44 kHz (8,440Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz)	38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)																																																																					
C113	8.19 kHz(8,192Hz) 9.5 kHz (9,500Hz) 32.8 kHz (32,768Hz)	38 kHz (38,000Hz) 65.5 kHz (65,536Hz) 78.1 kHz (78,125Hz)																																																																					
C211	8.19 kHz (8,192Hz) 8.44 kHz (8,440Hz) 9.82 kHz (9,820Hz) 32.8 kHz (32,768Hz)	65.5 kHz (65,536Hz) 82.5 kHz (82,488Hz) 83.1 kHz (83,077Hz)																																																																					
C241	8.19 kHz (8,192Hz) 32.8 kHz (32,768Hz)	65.5 kHz (65,536Hz) 83.1 kHz (83,077Hz)																																																																					
C242	8.19 kHz (8,192Hz)	65.5 kHz (65,536Hz)																																																																					

		65.5 kHz (65,536Hz) 83.1 kHz (83,077Hz)	32.8 kHz (32,768Hz)    83.1 kHz (83,077Hz)
	B007	9.82 kHz (9,820Hz) 83.1 kHz (83,077Hz)	C243    8.19 kHz (8,192Hz)    65.5 kHz (65,536Hz) 32.8 kHz (32,768Hz)    83.1 kHz (83,077Hz)
			C244    8.19 kHz (8,192Hz)    65.5 kHz (65,536Hz) 32.8 kHz (32,768Hz)    83.1 kHz (83,077Hz)
<b>Transmitting Mode Power Output</b>	In accordance with FCC part 15: - 1 watt	In accordance with FCC part 15: - Frequencies under 45 kHz - 5 watts - Frequencies over 45 kHz - 1 watt	In accordance with FCC part 15: - Frequencies under 45 kHz - 10 watts - Frequencies over 45 kHz - 1 watt
<b>Maximum Output Voltage</b>	20V RMS	30V/50V RMS	30V/50V RMS
<b>Maximum Output Current</b>	150mA RMS constant power	300mA RMS constant current	1A RMS constant current
<b>Audio indication</b>	- Connection quality – Fast beep sound showing the better signal applied - Low battery warning	- Connection quality – Fast beep sound showing the better signal applied - Low battery warning - Beep to confirm action - Long beep to confirm “set”	
<b>Transmitters Specifications</b>	<b>Loc-1Tx</b>	<b>Loc-5Tx</b>	<b>Loc-10Tx</b>
<b>Controls</b>	Use pushbuttons to select: - Frequency - Output level - Audio level	- Use pushbuttons to select: • Frequency • Output level • Information (volts & resistance) / Setting (volume, frequency & multi mode)	
<b>Compatible With Receivers</b>	vLocPro/vLocPro2, vLocML/vLocML2, vLoc-9800	vLocPro/vLocPro2, vLocML/vLocML2, vLoc-9800	vLocPro/vLocPro2, vLocDM/vLocDM2, vLocML/vLocML2, vLoc-9800
<b>Environmental</b>			
<b>Temperature Range</b>	Operating: -4°F to 122°F (-20°C to 50°C) Storage: -40°F to 140°F (-40°C to 60°C)		
<b>Weather Proof</b>	IP54 and NEMA 4		
<b>Shipping Weight</b>	4.4lbs (2kg)	10.9lbs (4.94kg)	38.6lbs (17.5kg) (receiver, transmitter & accessories)
<b>Shipping Dimension</b>	14.4in(L) x 11.0in(W) x 7.1in(H) (365mm x 280mm x 180mm)	14.4in(L) x 11.0in(W) x 7.1in(H) (365mm x 280mm x 180mm)	30.1in(L) x 17.5in(W) x 11.2in(H) (765mm x 445mm x 285mm) (receiver, transmitter & accessories)
<b>Warranty and Upgrade</b>			
<b>Warranty</b>	12 months(Limited warranty)		
<b>Software Upgrade</b>	Software can be upgraded by using a PC with an USB port.		

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

<p><b>USA</b> <b>Vivax-Metrotech Corp.</b> 3251 Olcott Street, Santa Clara, CA 95054, USA</p> <p>T/Free: 800-446-3392 Tel: +1-408-734-1400 Fax: +1-408-734-1415</p> <p>sales@vxmt.com www.vivax-metrotech.com</p>	<p><b>Canada</b> <b>Vivax Canada Inc.</b> 41 Courtland Ave Unit 6, Vaughan, ON L4K 3T3, Canada</p> <p>Tel: +1-289-846-3010 Fax: +1-905-752-0214</p> <p>CanadianSales@vxmt.com www.vivax-metrotech.com</p>	<p><b>UK</b> <b>Vivax-Metrotech Ltd.</b> 14-15, Bishops Court Gardens, Bishops Court Lane, Clyst St. Mary, Exeter, Devon, EX5 1DH, UK</p> <p>Tel: +44(0)1392-368833</p> <p>salesUK@vxmt.com www.vivax-metrotech.com</p>	<p><b>Australasia</b> <b>Vivax-Metrotech AUS</b> Unit 1, 176 South Creek Road, Cromer NSW 2099, Australia</p> <p>Tel: +61-2-9972-9244 Fax: +61-2-9972-9433</p> <p>sales@vxmtaus.com service@vxmtaus.com www.vivax-metrotechaus.com</p>	<p><b>Europe</b> <b>SebaKMT Seba</b> <b>Dynatronic Mess-und</b> <b>Ortungstechnik GmbH</b> 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><b>China</b> <b>Leidi Utility Supply</b> <b>(Shanghai) Ltd.</b> No. 780, Tianshan Rd, Shanghai, China 200051</p> <p>T/Free: 4008-206-719 Tel: +86-21-5235-3001 Fax: +86-21-5235-8365</p> <p>info@leidi.cn www.leidi.cn</p>
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