

Transmitters	Loc-1Tx	Loc-5STx	Loc-10Tx
Specifications			
Typical Applications	Pipe & cable locator transmitter Transmitting active signals for the location of buried pipes and cables		
Construction	High impact ABS		
Transmitter Assembly			
Weight (Excluding Battery)	3.7lbs (1.65kg)	4.6lbs (2.09kg)	11lbs (5kg) (with rechargeable battery tray) 10.8lbs (4.9kg) (with alkaline batteries)
Dimension	9.6in(L) x 9.6in(W) x 2.2in(H) (245mm x 243mm x 57.5mm)	14in(L) x 8.9in(W) x 4.1in(H) (356mm x 225mm x 104.5mm)	16.5in(L) x 7.1in(W) x 7.3in(H) (420mm x 180mm x 185mm)
Display Type	LED lights	- Monochrome dot matrix graphic LCD display (LED backlight) - 2in x 1in (50mm x 25mm)	- Monochrome dot matrix graphic LCD display (LED backlight) - 2.4in x 1.3in (60mm x 32mm)
Power Supply	- 4 x alkaline "D" cells	- 8 x alkaline "D" cells - Li-ion rechargeable battery pack	- 12 x alkaline "D" cells - Ni-MH rechargeable battery pack – 14.4V - 12-16V external DC power
Battery Life	At 70°F (21°C) - continuous use Output Power Alkaline 1/3 watt > 80 hours 1 watt > 25 hours	At 70°F (21°C) - continuous use Output Power Alkaline Li-ion (Rechargeable) 1 watt 15 hours 30 hours 5 watt 5 hours 6 hours <i>Li-ion batteries will withstand 500 charging life cycles</i>	At 70°F (21°C) - continuous use Output Power Alkaline Ni-MH (Rechargeable) 1 watt 25 hours 60 hours 5 watt 7hours 12 hours 10watt 4 hours 7 hours <i>Ni-MH batteries will withstand 500 charging life cycles</i>
External Connectors	- 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 USB socket - 1 x socket for battery charger (rechargeable battery pack)	- 1 x 3 pin connection socket–(XLR) - 1 x fuse (output protection) 1.6A/250V, 0.2in(Dia.) x 0.8in(L) (5mm x 20mm) - 1 x USB socket - 1 x socket for battery charger (rechargeable battery pack) & 12V DC power in
Output Protection	Output protected against accidental momentary connection to up to 240V AC	Output protected against accidental momentary connection to up to 240V AC	Output protected against accidental momentary connection to up to 240V AC
Approvals	- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • EN 55011 • 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 		- Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15
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 T type ground stake - USB cable - Soft carry bag		

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Optional Accessories	<ul style="list-style-type: none"> - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC) - 1 x ground lead (30ft (10m) long) 	<ul style="list-style-type: none"> - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - LPC Separation Filter (to connect and use transmitter on lines carrying up to 260V AC) - Rechargeable battery pack – comprising Li-ion Pack and charger (100-260V AC – 1.5A) 	<ul style="list-style-type: none"> - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - LPC separation filter (to connect and use transmitter on lines carrying up to 240V AC) - Rechargeable battery tray – comprising 12 x D cell Ni-MH batteries and charger (100-240V AC – 1.5A) - 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)
Rechargeable Batteries Pack Accessory			
Description	--	5W transmitter rechargeable battery pack	10W transmitter rechargeable batteries with tray
Weight	--	1.2lbs (0.54kg)	7lbs (3kg)
Dimension	--	5.9in(L) x 4.7in(W) x 1.6in(H) (149mm x 120mm x 41mm)	16.5in(L) x 6.8in(W) x 2.6in(H) (420mm x 172mm x 70mm)
Batteries	--	Li-ion battery pack	12 x rechargeable D cell (Ni-MH) batteries
Temperature Range	--	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)
Warranty	--	12 months	12 months
Operational			
Information Displayed	<ul style="list-style-type: none"> - Frequency (LED light) - Output level (LED light) - Battery status (LED light) - Beeper volume (2 levels & off) 	<ul style="list-style-type: none"> - Output current (numeric) - Volts - Resistance - Frequency of output signal - High voltage warning if volts on line exceed 30V AC - Beeper volume (3 levels & off) - Battery condition - Type of connection 	<ul style="list-style-type: none"> - Current (numeric) - Volts - Resistance - Frequency of output signal - High voltage warning if volts on line exceed 30V AC - Beeper volume (3 levels & off) - Battery condition icon - Bar graph showing proportion of signal successfully applied - Animation icon confirming connection mode (Induction, Direct connection, Clamp)
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>		

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Induction Mode	<p>Two induction frequency chosen from:</p> <table border="1"> <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>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>32.8 kHz(32,768Hz) 83.1 kHz(83,077Hz)</td> </tr> </table> <p>* Vivax-Metrotech reserves the right to change this list.</p>	A002	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz)	A006	8.19 kHz(8,192Hz) 83.1 kHz(83,077Hz)	A010	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	32.8 kHz(32,768Hz) 83.1 kHz(83,077Hz)	<p>Frequencies used regularly (favorites) can be selected – so that they are the only ones included in the frequency selection mode.</p> <p>NOTE: other frequencies available in the frequency list</p> <table border="1"> <tr> <td>B001</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>B006</td> <td>8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)</td> </tr> <tr> <td>B007</td> <td>9.82 kHz(9,820Hz) 83.1 kHz(83,077Hz)</td> </tr> </table> <p>* Vivax-Metrotech reserves the right to change this list.</p>	B001	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)	B006	8.19 kHz(8,192Hz) 32.8 kHz(32,768Hz) 65.5 kHz (65,536Hz)	B007	9.82 kHz(9,820Hz) 83.1 kHz(83,077Hz)	<p>Frequencies used regularly (favorites) can be selected – so that they are the only ones included in the frequency selection mode.</p> <p>NOTE: other frequencies available in the frequency list</p> <table border="1"> <tr> <td>C011</td> <td>ACTIVE: 8.19 kHz (8,192Hz) 32.8kHz (32,768Hz) 65.5 kHz (65,536Hz) 200 kHz (200,000Hz)</td> </tr> <tr> <td>C111 C112</td> <td>ACTIVE: 8.19 kHz (8,192Hz) 32.8kHz (32,768Hz) 65.5 kHz (65,536Hz) 200 kHz (200,000Hz)</td> </tr> <tr> <td>C243</td> <td>ACTIVE: 8.19 kHz (8,192Hz) 32.8kHz (32,768Hz) 65.5 kHz (65,536Hz) 83,1kHz (83077.5Hz)</td> </tr> <tr> <td>C244</td> <td>ACTIVE: 8.19kHz (8,192Hz), 32.8kHz (32,768Hz) 65.5kHz (65,536Hz) 83,1kHz (83077.5Hz)</td> </tr> </table> <p>* Vivax-Metrotech reserves the right to change this list.</p>	C011	ACTIVE: 8.19 kHz (8,192Hz) 32.8kHz (32,768Hz) 65.5 kHz (65,536Hz) 200 kHz (200,000Hz)	C111 C112	ACTIVE: 8.19 kHz (8,192Hz) 32.8kHz (32,768Hz) 65.5 kHz (65,536Hz) 200 kHz (200,000Hz)	C243	ACTIVE: 8.19 kHz (8,192Hz) 32.8kHz (32,768Hz) 65.5 kHz (65,536Hz) 83,1kHz (83077.5Hz)	C244	ACTIVE: 8.19kHz (8,192Hz), 32.8kHz (32,768Hz) 65.5kHz (65,536Hz) 83,1kHz (83077.5Hz)
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Transmitting Mode Power Output	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																										
Maximum Output Voltage	20V RMS	30V/50V RMS	30V/50V RMS																										
Maximum Output Current	150mA RMS constant power	300mA RMS constant current, 100mA >45 kHz	1A RMS constant current, 200mA > 45kHz																										
Audio indication	<ul style="list-style-type: none"> - Connection quality – Fast beep sound showing the better signal applied - Low battery warning 	<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	Use pushbuttons to select: <ul style="list-style-type: none"> - Frequency - Output level - Audio level 	<ul style="list-style-type: none"> - Use pushbuttons to select: <ul style="list-style-type: none"> • Frequency • Output level • Information (volts & resistance) / Setting (volume, frequency, multi mode, contrast adjustment) 																											
Compatible With Receivers	vLocPro/vLocPro2, vLocML/vLocML2, vLoc-9800	vLocPro/vLocPro2, vLocML/vLocML2, vLoc-9800	vLocPro/vLocPro2, vLocDM/vLocDM2, vLocML/vLocML2, vLoc-9800																										

Transmitters	Loc-1Tx	Loc-5STx	Loc-10Tx
Specifications			
Environmental			
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	4.4lbs (2kg)	8.8lbs (4kg)	16.8lbs (7.6kg) (with rechargeable battery tray) 16.5lbs (7.5kg) (with alkaline batteries)
Shipping Dimension	14.4in(L) x 11.0in(W) x 7.1in(H) (365mm x 280mm x 180mm)	16.1in(L) x 9.1in(W) x 6.9in(H) (410mm x 230mm x 175mm)	18.1in(L) x 9.8in(W) x 9.1in(H) (460mm x 250mm x 230mm)
Warranty and Upgrade			
Warranty	12 months (Limited warranty) (exclude batteries)		
Software Upgrade	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.

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