Specifications \ Transmitters	Loc-1Tx	Loc-5Tx	Loc-10Tx
Typical Applications			
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)*	*4.8lbs (2.16kg)*	*11lbs (5kg)*
Dimension	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) x7.3in(H) (*420mm x 180mm x 185mm)*
Display Type	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)*
Power Supply	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
Battery Life	At 70ºF *(21ºC)* - continuous use **Output Power** **Alkaline** 1/3 watt > 80 hours	At 70ºF *(21ºC)* - continuous use **Output Power** **Alkaline** **Ni-MH (Rechargeable)** 1 watt 20 hours 50 hours 5 watt 4 hours 10 hours *Ni-MH batteries will withstand 500 charging life cycles*	At 70ºF *(21ºC)* - continuous use **Output Power** **Alkaline** **Ni-MH (Rechargeable)** 1 watt 20 hours 50 hours 5 watt 6 hours 10 hours 10watt 3 hours 6 hours *Ni-MH batteries will withstand 500 charging life cycles*
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 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
Output Protection	Output protected against accidental momentary connection to up to 240V AC		
Approvals	- Complies with European standard CE (Directive 99/5/EC) • 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 • 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 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		

Transmitters / Specifications	Loc-1Tx	Loc-5Tx	Loc-10Tx
Optional Accessories	- 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) - Transmitter only "shoulder bag"	- 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) - Transmitter only "shoulder bag" - Rechargeable battery pack – comprising 8 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 the transmitter) - 100-240V AC power supply for powering the transmitter from mains power (not charging the transmitter)	- 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) - Soft carry bag (with no wheels) - 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 batteries pack	10W transmitter rechargeable batteries with tray
Weight	--	3.31lbs *(1.5kg)*	11lbs *(3.2kg)*
Dimension	--	8.9in(L) x 5.9in(W) x 2.3in(H) *(225mm x 150mm x 59mm)*	16.5in(L) x 6.8in(W) x2.6in(H) (*420mm x 172mm x 70mm)*
Batteries	--	8 x rechargeable D cell (Ni-MH) batteries	12 x rechargeable D cell (Ni-MH) batteries
Temperature Range	--	Operating: -4ºF to 122ºF *(-20ºC to 50ºC)* Storage: -40ºF to 140ºF *(-40ºC to 60ºC)*	Operating: -4ºF to 122ºF *(-20ºC to 50ºC)* Storage: -40ºF to 140ºF *(-40ºC to 60ºC)*
Warranty	--	12 months	12 months
Operational			
Information Displayed	- Frequency (LED light) - Output level (LED light) - Battery status (LED light) - Beeper volume (2 levels & off)	- Output current (numeric) - Volts - Resistance - Impedance - Frequency of output signal - High voltage warning if volts on line exceed RMS 36V - Beeper volume (3 levels & off) - Battery condition - Type of connection	- Current (numeric) - Volts - Resistence - 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	- ***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 * Modes are selected automatically when accessories are plugged in. * Default mode (no accessories) is induction.		

<table>
<tr><th>Specifications \ Transmitters</th><th>Loc-1Tx</th><th>Loc-5Tx</th><th>Loc-10Tx</th></tr>
<tr><td>Transmitting Frequency By Mode</td><td></td><td></td><td></td></tr>
<tr><td>Induction Mode</td><td>Single frequency chosen from:<table><tr><td>A002</td><td>32.8 kHz(32,768Hz)</td></tr><tr><td>A006</td><td>83.1 kHz(83,077Hz)</td></tr><tr><td>A010</td><td>32.8 kHz(32,768Hz)</td></tr><tr><td>A017</td><td>32.8 kHz(32,768Hz)</td></tr><tr><td>A018</td><td>83.1 kHz(83,077Hz)</td></tr><tr><td>A019</td><td>83.1 kHz(83,077Hz)</td></tr><tr><td>A020</td><td>83.1 kHz(83,077Hz)</td></tr></table>* Vivax-Metrotech reserves the right to change this list.</td><td>Two induction frequencies chosen from:<table><tr><td>B001</td><td>8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td></tr><tr><td>B002</td><td>32.8 kHz(32,768Hz)
65.5 kHz(65,536Hz)</td></tr><tr><td>B003</td><td>32.8 kHz(32,768Hz)
200 kHz(200,000Hz)</td></tr><tr><td>B004</td><td>8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td></tr><tr><td>B005</td><td>32.8 kHz(32,768Hz)
83.1 kHz(83,077Hz)</td></tr><tr><td>B006</td><td>8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td></tr><tr><td>B007</td><td>9.82 kHz(9,820Hz)
83.1 kHz(83,077Hz)</td></tr></table>* Vivax-Metrotech reserves the right to change this list.</td><td>Three induction frequencies chosen from:<table><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>200 kHz (200,000Hz)</td></tr><tr><td>C013</td><td>32.8 kHz(32,768Hz)
83.1 kHz(83,077Hz)</td><td>200 kHz (200,000Hz)</td></tr><tr><td>C111</td><td>8.44 kHz(8,440Hz)
32.8 kHz(32,768Hz)</td><td>82.5 kHz (82,488Hz)</td></tr><tr><td>C113</td><td>32.8 kHz(32,768Hz)
65.5 kHz(65,536Hz)</td><td>78.1 kHz (78,125Hz)</td></tr><tr><td>C211</td><td>8.44 kHz(8,440Hz)
32.8 kHz(32,768Hz)</td><td>82.5 kHz(82,488Hz)</td></tr><tr><td>C241</td><td>8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz(65,536Hz)</td></tr><tr><td>C242</td><td>32.8 kHz(32,768Hz)
65.5 kHz(65,536Hz)</td><td>83.1 kHz(83,077Hz)</td></tr><tr><td>C243</td><td>8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz(65,536Hz)</td></tr><tr><td>C244</td><td>8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz(65,536Hz)</td></tr></table>* Vivax-Metrotech reserves the right to change this list.</td></tr>
<tr><td>Direct Connection Mode</td><td>3 operational frequencies<table><tr><td>A002</td><td>512Hz
8.19 kHz (8,192Hz)</td><td>32.8 kHz (32,768Hz)</td></tr><tr><td>A006</td><td>512Hz
8.19 kHz (8,192Hz)</td><td>83.1 kHz (83,077Hz)</td></tr><tr><td>A010</td><td>8.19 kHz (8,192Hz)
32.8 kHz (32,768Hz)</td><td>65.5 kHz (65,536Hz)</td></tr><tr><td>A017</td><td>640Hz
8.19 kHz (8,192Hz)</td><td>32.8 kHz (32,768Hz)</td></tr><tr><td>A018</td><td>640Hz
8.19 kHz (8,192Hz)</td><td>83.1 kHz (83,077Hz)</td></tr><tr><td>A019</td><td>982Hz
9.82 kHz (9,820Hz)</td><td>83.1 kHz (83,077Hz)</td></tr><tr><td>A020</td><td>8.19 kHz (8,192Hz)
83.1 kHz (83,077 Hz)</td><td>32.8 kHz (32,768Hz)</td></tr></table>* Other frequencies can be added</td><td>Frequencies used regularly (favorites) can be selected – so that they are the only ones included in the frequency selection mode.<table><tr><td>B001</td><td>512Hz
8.19 kHz(8,192Hz)</td><td>32.8 kHz(32,768Hz)
65.5 kHz (65,536Hz)</td></tr><tr><td>B002</td><td>512Hz
8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz (65,536Hz)
200 kHz (200,000Hz)</td></tr><tr><td>B003</td><td>512Hz
8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz (65,536Hz)
200 kHz (200,000Hz)</td></tr><tr><td>B004</td><td>SD-EUR
640Hz
8.19 kHz (8,192Hz)</td><td>32.8 kHz(32,768Hz)
65.5 kHz (65,536Hz)</td></tr><tr><td>B005</td><td>512Hz
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)
83.1 kHz (83,077Hz)</td></tr><tr><td>B006</td><td>SD-EUR
512Hz
640Hz</td><td>32.8 kHz (32,768Hz)
65.5 kHz (65,536Hz)
83.1 kHz (83,077Hz)</td></tr></table></td><td>Frequencies used regularly (favorites) can be selected – so that they are the only ones included in the frequency selection mode.<table><tr><td>C011</td><td>512Hz
8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz (65,536Hz)
200 kHz (200,000Hz)</td></tr><tr><td>C012</td><td>512Hz
8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz (65,536Hz)
200 kHz (200,000Hz)</td></tr><tr><td>C013</td><td>512Hz
8.19 kHz(8,192Hz)
32.8 kHz(32,768Hz)</td><td>65.5 kHz (65,536Hz)
200 kHz (200,000Hz)
83.1 kHz (83,077Hz)</td></tr><tr><td>C111</td><td>512Hz
640Hz
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)
82.5 kHz (82,488Hz)
200 kHz (200,000Hz)</td></tr><tr><td>C113</td><td>512Hz
640Hz
8.19 kHz(8,192Hz)</td><td>32.8 kHz (32,768Hz)
38 kHz (38,000Hz)
65.5 kHz (65,536Hz)</td></tr></table></td></tr>
</table>

	8.19 kHz*(8,192Hz)*		
B007	982Hz	83.1 kHz *(83,077Hz)*	
	9.82 kHz *(9,820Hz)*		

*Multi frequency mode up to 3 simultaneously.

Signal Direction

SD-USA	256Hz/512Hz
SD-EUR	320Hz/640Hz

	9.5 kHz *(9,500Hz)*	78.1 kHz *(78,125Hz)*
C211	640Hz	32.8 kHz *(32,768Hz)*
	8.19 kHz *(8,192Hz)*	65.5 kHz *(65,536Hz)*
	8.44 kHz *(8,440Hz)*	82.5 kHz *(82,488Hz)*
	9.82 kHz *(9,820Hz)*	83.1 kHz *(83,077Hz)*
C241	8.19 kHz *(8,192Hz)*	65.5 kHz *(65,536Hz)*
	32.8 kHz *(32,768Hz)*	83.1 kHz *(83,077Hz)*
C242	8.19 kHz *(8,192Hz)*	83.1 kHz *(83,077Hz)*
	32.8 kHz *(32,768Hz)*	131 kHz *(131,072Hz)*
	65.5 kHz *(65,536Hz)*	
C243	8.19 kHz *(8,192Hz)*	83.1 kHz *(83,077Hz)*
	32.8 kHz *(32,768Hz)*	131 kHz *(131,072Hz)*
	65.5 kHz *(65,536Hz)*	
C244	128Hz	8.19 kHz *(8,192Hz)*
	SD-EUR	32.8 kHz *(32,768Hz)*
	512Hz	65.5 kHz *(65,536Hz)*
	640Hz	83.1 kHz *(83,077Hz)*

*Multi frequency mode up to 2 simultaneously.

Signal Direction

SD-USA	256Hz/512Hz
SD-EUR	320Hz/640Hz

Clamp Mode

Clamp operational between 8 kHz and 83k based on configuration.

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)*

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.

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)*

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

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)* B007: 9.82 kHz *(9,820Hz)* 83.1 kHz *(83,077Hz)*	32.8 kHz *(32,768Hz)* 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)*
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	1A RMS constant current
Audio indication	- 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"	
Transmitters / Specifications	**Loc-1Tx**	**Loc-5Tx**	**Loc-10Tx**
Controls	Use pushbuttons to select: - Frequency - Output level - Audio level	- Use pushbuttons to select: • Frequency • Output level • Information (volts & resistance) / Setting (volume, frequency & multi mode)	
Compatible With Receivers	vLocPro/vLocPro2, vLocML/vLocML2, vLoc-9800	vLocPro/vLocPro2, vLocML/vLocML2, vLoc-9800	vLocPro/vLocPro2, vLocDM/vLocDM2, vLocML/vLocML2, vLoc-9800
Environmental			
Temperature Range	Operating: -4ºF to 122ºF *(-20ºC to 50ºC)* Storage: -40ºF to 140ºF *(-40ºC to 60ºC)*		
Weather Proof	IP54 and NEMA 4		
Shipping Weight	4.4lbs *(2kg)*	10.9lbs *(4.94kg)*	38.6lbs *(17.5kg) (receiver, transmitter & accessories)*
Shipping Dimension	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)*
Warranty and Upgrade			
Warranty	12 months(Limited warranty)		
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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