



VIVAX
METROTECH

Loc3-25Tx 25-Watt Transmitter

Technical Specifications V1.1



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A. Typical Applications

Item	Parameter
Description	Low-Frequency transmitter for buried utility locating and pipeline defect mapping
Designed Use	<ul style="list-style-type: none"> - Transmitting active signals for long-distance pipeline location - Transmitting active signals for the location of buried pipes and cables - Transmitting active signals for the location of coating defects on buried pipes

B. Characteristics

Item	Parameter									
Construction	High-impact ABS plastic									
Weight	7.05lbs (3.19kg)									
Dimension	13.1in(L) x 7.2in(W) x7.3in(H) (332mm x 182mm x 185mm)									
Display Type	<ul style="list-style-type: none"> - Monochrome-dot-matrix graphic LCD display with LED backlight - 2.4in x 1.3in (60mm x 32mm) 									
Power Supply	<ul style="list-style-type: none"> - Li-Ion rechargeable battery tray with AC to DC adapter (Optional 12 x D Cell Alkaline battery tray (output limited to 10W)) 									
Battery Life	<table border="0"> <thead> <tr> <th>Output Power</th> <th>Alkaline</th> <th>Li-Ion (Rechargeable)</th> </tr> </thead> <tbody> <tr> <td>25-watt</td> <td>N/A</td> <td>4 hours</td> </tr> <tr> <td>*10-watt</td> <td>4 hours</td> <td>6 hours</td> </tr> </tbody> </table> <p>*When using Alkaline batteries the output is limited to 10-watts</p> <p>* Continuous use at 70°F (21°C) with the backlight activated. The battery life varies with temperature, battery type and quality. Recharging cycles are approximately 500 times the life cycle. Based on maximum output into 50-ohm load and 50% duty cycle.</p>	Output Power	Alkaline	Li-Ion (Rechargeable)	25-watt	N/A	4 hours	*10-watt	4 hours	6 hours
Output Power	Alkaline	Li-Ion (Rechargeable)								
25-watt	N/A	4 hours								
*10-watt	4 hours	6 hours								
Environmental	IP65 and NEMA 4									
External Connectors	<ul style="list-style-type: none"> - 1 x speakOn® connector - 1 x fuse (output protection) 4A/250V - 1 x Mini-USB socket - 1 x socket for battery charger & 19V DC power in 									
Temperature Range	<ul style="list-style-type: none"> - Operating:-4°F to 122°F (-20°C to 50°C) - Storage:-40°F to 140°F (-40°C to 60°C) 									
Compliance/Approvals	<table border="0"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) (Pending) <ul style="list-style-type: none"> • EN 55011 </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> - Complies with FCC Rules Part 15 (Pending) <ul style="list-style-type: none"> • CFR 47 part 2 </td> </tr> </table>	<ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) (Pending) <ul style="list-style-type: none"> • EN 55011 	<ul style="list-style-type: none"> - Complies with FCC Rules Part 15 (Pending) <ul style="list-style-type: none"> • CFR 47 part 2 							
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	<ul style="list-style-type: none"> EN 61000-4-3 EN 61000-4-2: A1 & A2 EN 61000-4-8: A1 ETSI EN 300 330-2 ETSI EN 301 489-1 ETSI EN 301 489-3 	<ul style="list-style-type: none"> CFR 47 Part 15
Manufacturing	Under ISO 9001:2015	
Standard Accessories (Supplied With Transmitter)	<ul style="list-style-type: none"> Direct Connection Leads (10ft (3.5m) red/black leads) Ground stake Li-ion Rechargeable battery tray DC/AC Power supply for rechargeable battery Transmitter carry bag Vehicle DC power supply 	
Compatible Accessories Options	<ul style="list-style-type: none"> 4-inch (100mm) transmitter clamp 5-inch (125mm) transmitter clamp 	

C. Operational

Item	Parameter	
Information Displayed	<ul style="list-style-type: none"> Current (numeric) Volts Resistance Frequency of output signal Beeper volume (three levels & off) 	<ul style="list-style-type: none"> Output Step bar graph showing the proportion of signal current successfully applied High voltage warning if utility-to-ground potential exceeds 21V (DC or AC peak) Animation icon confirming connection mode (Direct connection or Clamp)
Transmitting Modes	<ul style="list-style-type: none"> Direct connection mode - applies a signal directly to the cable by clipping one output lead to the cable, the other to an independent ground. Clamp mode – applies a signal using an inductive clamp (aka toroid or coupler) placed around the target pipe or cable. *Compatible frequencies of 8kHz and above. *Modes are automatically selected when an accessory is plugged in. 	

Transmitting Frequency by Mode

Direct Connection Mode	<ul style="list-style-type: none"> 3Hz/98Hz 3Hz/128Hz 4Hz/98Hz 4Hz/128Hz; ELF1-3Hz/6Hz/98Hz; 	<ul style="list-style-type: none"> ELF4-4Hz/8Hz/128Hz; 3Hz/6Hz/512Hz; 3Hz/6Hz/640Hz; 4Hz/8Hz/512Hz; 4Hz/8Hz/640Hz
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	<ul style="list-style-type: none"> - ELF2-3Hz/6Hz/128Hz; - ELF3-4Hz/8Hz/98Hz; 	<ul style="list-style-type: none"> - 20Hz to 9.82kHz
Clamp Mode	<ul style="list-style-type: none"> - 8kHz to 9.82kHz 	
Transmitting Mode Power Output	<p>In accordance with FCC part 15:</p> <ul style="list-style-type: none"> - Frequencies under 45 kHz - 25 watts - 25 watts Li-Ion rechargeable battery, or external 19V 180W power adapter: - 10 watts when using alkaline batteries 	
Maximum Output Voltage	<ul style="list-style-type: none"> - Li-Ion rechargeable battery, or external 19V 180W power adapter: 130V peak - 12V power adapter: 42V peak 	
Maximum Output Current	4A peak	
Output Protection	<ul style="list-style-type: none"> - Maximum utility-to-ground potential (operating): 21V (DC or AC peak) - Output protected against accidental momentary connection to up to 230V AC (rms) 	
Audio Indication	<ul style="list-style-type: none"> - Connection quality – Increased beep rate indicates a better-applied signal - Beep to confirm the action 	
Controls	<ul style="list-style-type: none"> - Use pushbuttons to select: <ul style="list-style-type: none"> • On/Off • Frequency • Output level <p>Information (volts & resistance) / Setting (volume, frequency & multi-mode)</p>	
Compatible Receivers	<ul style="list-style-type: none"> - vLoc3-DM, vLoc3-Pro, vLoc3-5000, vLoc3-9800, vLoc3-XLF - vLocDM, vLocDM2, - vLoc, vLoc2 series receivers, and vLoc3 series receivers with matching frequencies 	

D. Rechargeable Battery Tray

Item	Parameter
Description	Loc3 Series Transmitter Li-Ion rechargeable battery tray with charger
Input/output	Input DC12V 3A Output DC18V-93.6 Wh
Battery Type	Li-Ion battery
Temperature Range	<ul style="list-style-type: none"> - Operating: 14°F to 122°F (-10°C to 50°C) - Storage: -4°F to 140°F (-20°C to 60°C) - Charging: 32°F to 113°F (0°C to 45°C)

Storage humidity	≤ 75% RH
Weight	Battery Tray: 3.31lbs. (1.5kg)
Dimension	13.1in(L) x 7.2in(W) x 2.9in(H) (332mm x 182mm x 73mm)
Shipping Weight	4.6lbs (2.1kg) (Battery Tray)
Shipping Dimension	16.1in(L) x 10.2in(W) x 6.7in(H) (410mm x 260mm x 170mm)
Warranty	One Year

E. Shipping and Packaging

Item	Parameter
Shipping Weight	14.4lbs. (6.5kg)
Shipping Dimensions	15.7in(L) x 11.8in(W) x 8.7in(H) (400mm x 300mm x 220mm)

F. Warranty

Item	Parameter
Warranty	<ul style="list-style-type: none"> - Two years - Extended warranty available

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