



VIVAX
METROTECH

Loc3-10Tx

Technical Specifications V1.5



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A. Typical Applications

Item	Parameter
Description	Pipe & cable locator transmitter
Designed Use	<ul style="list-style-type: none"> - Transmitting active signals for the location of buried pipes and cables. - Transmitting a fault-find frequency for the detection of cable faults

B. Characteristics

Item	Parameter												
Construction	High-impact ABS plastic												
Weight	<ul style="list-style-type: none"> - With Alkaline battery tray: 9.9lbs (4.4kg) - With Rechargeable battery tray: 7.15lbs (3.24kg) 												
Dimensions	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 Options	<ul style="list-style-type: none"> - 12 x alkaline "D" cells - 12~22V external DC power - Optional Li-Ion rechargeable battery pack – 18V 												
Battery Life	<table border="0"> <thead> <tr> <th>Output Power</th> <th>Alkaline</th> <th>Li-Ion (Rechargeable)</th> </tr> </thead> <tbody> <tr> <td>1 watt</td> <td>25 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>4-5 hours</td> <td>6 hours</td> </tr> </tbody> </table> <p><i>At 70°F (21°C) - continuous use (based on the battery type and quality)</i></p> <p><i>Li-Ion batteries will withstand 500 charging life cycles</i></p>	Output Power	Alkaline	Li-Ion (Rechargeable)	1 watt	25 hours	50 hours	5 watt	6 hours	10 hours	10 watt	4-5 hours	6 hours
Output Power	Alkaline	Li-Ion (Rechargeable)											
1 watt	25 hours	50 hours											
5 watt	6 hours	10 hours											
10 watt	4-5 hours	6 hours											
Environmental	<ul style="list-style-type: none"> - IP54 and NEMA 4 												
External Connectors	<ul style="list-style-type: none"> - 1 x 3 pin connection socket (XLR) - 1 x fuse (output protection) 1.6A/250V - 1 x Mini-USB socket - 1 x socket for battery charger & 12V 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	<ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • EN 55011 												

	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> - Direct Connection Leads (XLR plug with 10ft (3.5m) red/black leads) - Ground stake - Alkaline battery tray - 12 x D Cell alkaline batteries
Compatible Accessories Options	<ul style="list-style-type: none"> - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - 18-inch (450mm) flexible transmitter clamp - LPC Separation Filter (to connect and use the transmitter on lines carrying up to 240V AC) - LCC Live Cable Connector (to connect and use the transmitter on lines carrying up to 480V AC) - Rechargeable battery tray – Custom Li-Ion battery tray and charger (input DC12V 3A, output DC18V-93.6 Wh) - 12V DC vehicle power lead for powering and charging the optional rechargeable battery from a vehicle - 100-240V AC power supply for powering and charging the optional rechargeable battery from a mains power supply

C. Operational

Item	Parameter
Information Displayed	<ul style="list-style-type: none"> - Current (numeric) - Volts - Resistance - Frequency of output signal - High voltage warning if volts online exceed 30V AC - Beeper volume (three levels & off) - Battery condition icon

	<ul style="list-style-type: none"> - Bar graph showing the proportion of successfully applied signal - Animation icon confirming connection mode (Induction, Direct connection, Clamp) - TX-RX control connection status (if fitted)
Transmitting Modes	<ul style="list-style-type: none"> - Induction mode – applies signal inductively using the 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 (aka toroid or coupler) that is placed around the target pipe or cable <p>* Modes are automatically selected when accessories are plugged in. The default mode (no accessories) is Induction.</p>

Transmitting Frequency by Mode

Induction Mode	Multiple induction frequencies between 8.19 kHz and 200 kHz
Direct Connection Mode	Available frequencies between 98Hz and 200 kHz with default frequencies of 512Hz, 8.19 kHz, 33 kHz, 65 kHz, 200 kHz
Clamp Mode	Available frequencies between 8.19 kHz and 200 kHz with default frequencies of 8.19 kHz, 33 kHz, 65 kHz, and 200 kHz
Transmitting Mode Power Output	<p>In accordance with FCC part 15:</p> <ul style="list-style-type: none"> - <i>Frequencies under 45 kHz - 10 watts</i> - <i>Frequencies over 45 kHz - 1 watt</i>
Maximum Output Voltage	50V RMS
Maximum Output Current	1A RMS constant current
Output Protection	Output protected against accidental momentary connection to up to 240V AC
Audio Indication	<ul style="list-style-type: none"> - Connection quality – Increased beep rate indicates a better-applied signal - Beeps to confirm the selected action
Controls	<ul style="list-style-type: none"> - Use pushbuttons to select: <ul style="list-style-type: none"> • On/Off • Frequency • Output level • Information (volts & resistance) / Setting (volume, frequency & multi-mode)
Compatible Receivers	vLoc3 series, vLoc series 2, vLoc series, VM-510FFL+

D. Rechargeable Battery Tray (optional accessory)

Item	Parameter
Description	Optional Li-Ion rechargeable battery tray with charger for Loc3 series transmitters
Input/output	<ul style="list-style-type: none"> - Input DC 12V 3A - Output DC 18V-93.6 Wh
Battery Type	Li-Ion battery
Temperature Range	<ul style="list-style-type: none"> - Operating: 14°F to 140°F (-10°C to 60°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	<ul style="list-style-type: none"> - Battery Tray: 3.31lbs. (1.5kg) - Transmitter with battery tray: 7.1lbs. (3.2kg)
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	<ul style="list-style-type: none"> - With alkaline battery tray: 15lbs. (6.8kg) - With rechargeable battery tray: 12.3lbs. (5.6kg)
Shipping Dimension	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 (Transmitter with alkaline battery tray) - Extended warranty available

All products are designed and manufactured per ISO 9001:2015.

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