



VIVAX
METROTECH

Loc-150Tx 150-Watt Transmitter

Technical Specifications V1.2



VIVAX
METROTECH

Worldwide Locations

World Headquarters, United States of America

Vivax-Metrotech Corporation

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392
Tel : +1-408-734-1400
Fax : +1-408-734-1415
Website : www.vivax-metrotech.com
Email : SalesUSA@vxmt.com

Central/South America and the Caribbean

Ventas para América Latina

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392
Tel : +1-408-734-1400
Fax : +1-408-743-5597
Website : www.vivax-metrotech.com
Email : LatinSales@vxmt.com

Canada

Vivax Canada, Inc.

41 Courtland Ave Unit 8, Vaughan, ON L4K 3T3, Canada

Tel : +1-289-846-3010
Fax : +1-905-752-0214
Website : www.vivax-metrotech.com
Email : SalesCA@vxmt.com

United Kingdom

Vivax-Metrotech Ltd.

Unit 1, B/C Polden Business Centre, Bristol Road, Bridgwater, Somerset, TA6 4AW, UK

Tel : +44(0)1793 822679
Website : www.vivax-metrotech.co.uk
Email : SalesUK@vxmt.com

France

Vivax-Metrotech SAS

Technoparc - 1 allée du Moulin Berger, 69130 Ecully, France

Tel : +33(0)4 72 53 03 03
Fax : +33(0)4 72 53 03 13
Website : www.vivax-metrotech.fr
Email : SalesFR@vxmt.com

Germany

Metrotech Vertriebs GmbH

Am steinernen Kreuz 10a
D-96110 Schesslitz

Tel : +49 954 277 227 43
Website : www.vivax-metrotech.de
Email : SalesEU@vxmt.com

China

Vivax-Metrotech (Shanghai) Ltd.

3/F No.90, Lane 1122 Qinzhou Rd.(N),
Shanghai, China 200233

Tel : +86-21-5109-9980
Fax : +86-21-2281-9562
Website : www.vivax-metrotech.com
Email : SalesCN@vxmt.com.cn

A. Typical Applications

Item	Parameter
Description	Pipeline defect mapper transmitter
Designed Use	<ul style="list-style-type: none"> - Transmitting active signals for the location of long-distance pipelines - Transmitting active signals for the location of buried pipes and cables - Transmitting a fault-find frequency for the detection of cable faults - Transmitting active signals for the location of coating defects on buried pipes

B. Loc-150Tx Transmitter Characteristics

Item	Parameter		
Construction	High-impact ABS plastic		
Weight	27.5lbs (12.5kg)		
Dimension	16.7in(L) x 10.3in(W) x 12.9in(H) (425mm x 262mm x 328mm)		
Display Type	Monochrome dot matrix display, 2.4in x 1.3in (60mm x 32mm)		
Environmental	IP54 and NEMA 4		
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) 		
Power Supply	<ul style="list-style-type: none"> - Cathodic Protection (nominally 26V - 60V DC) (max 14A) - 100 – 250V AC mains power (max 4A) - or 12V DC external supply or higher (output power is limited when using 12V DC) (max 8A) 		
External Connectors	<ul style="list-style-type: none"> - 100 – 250V AC mains input - three-pin “Multi-Con-X” connector (Male) - DC Input - two-pin “Multi-Con-X” connector (Male) - Transmitter output - two-pin “Multi-Con-X” connector (Female) - Fuse sockets – mains input fuse (5A, 250V), output fuse (10A, 250V) 		
Output Protection	Output fuse protected against accidental connection to up to AC/DC 250V		
Compliance and Approvals	<table border="0" style="width: 100%;"> <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 • EN 61000-4-3 • EN 61000-4-2: A1 & A2 • EN 61000-4-8: A1 </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 • CFR 47 Part 15 </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 • EN 61000-4-3 • EN 61000-4-2: A1 & A2 • EN 61000-4-8: A1 	<ul style="list-style-type: none"> - Complies with FCC Rules Part 15 (Pending) <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15
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	<ul style="list-style-type: none"> • ETSI EN 300 330-2 • ETSI EN 301 489-1 • ETSI EN 301 489-3
Manufacturing	- Under ISO 9001:2015
Standard Accessories (Supplied With Transmitter)	<ul style="list-style-type: none"> - 1 x direct connection lead (with two cables each 10ft (3.5m) long with crocodile clips) - 1 x DC input lead (with two cables each 10ft (3.5m) long with crocodile clips) - 1 x 9ft (3m) mains input lead

C. Loc-150Tx Transmitter Operational

Item	Parameter
Information Displayed	<ul style="list-style-type: none"> - Output Frequency - Output Current setting - Output Current - Output Voltage (info menu) - Operating Temperature (info menu)
Signal Application	Direct connection - applies signal directly by clipping one output lead to the pipe, the other to an independent ground or anode bed.
Transmitting Frequencies (Varies by Country & Market)	<ul style="list-style-type: none"> - 98Hz, 128Hz, 512Hz, 640Hz, 3Hz/98Hz, 3Hz/128Hz, 4Hz/98Hz, 4Hz/128Hz; - ELF1-3Hz/6Hz/98Hz; - ELF2-3Hz/6Hz/128Hz; - ELF3-4Hz/8Hz/98Hz; - ELF4-4Hz/8Hz/128Hz; - 3Hz/6Hz/512Hz; - 3Hz/6Hz/640Hz; - 4Hz/8Hz/512Hz; - 4Hz/8Hz/640Hz <p>Other multiple frequencies in the range of 3Hz to 2kHz are available upon request.</p>
Transmitting Mode Power Output	<ul style="list-style-type: none"> - Powered by AC: 150W - Powered by DC: 12-28V, 50W; > 28V, 150W
Output Voltage	Maximum output voltage = 120V RMS
Output Current	Maximum output current = 4A RMS with up to two frequencies. Output limited to 3A RMS with three simultaneous frequencies.
Controls	Two Rotary/Push control knobs to select: <ul style="list-style-type: none"> - Frequency - Output level

	<ul style="list-style-type: none"> - Information - ACTIVE/STANDBY pushbutton One On/OFF pushbutton
Compatible Receivers	vLoc3-DM, vLocDM2, vLocDM

D. Shipping and Packaging

Item	Parameter
Transmitter Shipping Weight	44.1lbs (20kg)
Transmitter Shipping Dimensions	21.7in(L) x 15.2in(W) x 18.3in(H) (550mm x 385mm x 465mm)

E. Warranty

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

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