



VIVAX
METROTECH

Loc-150Tx 150-Watt Transmitter

Technical Specifications V1.3



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A. Description and Typical Applications

Item	Parameter
Model Name	Loc-150Tx
Model Number	VX202-01
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	<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 - Complies with FCC Rules Part 15 (Pending) <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15

	<ul style="list-style-type: none"> • 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
Manufacturing	Designed and manufactured per ISO 9001:2015
What's In the Box	<ul style="list-style-type: none"> - 1 x Loc-150Tx Transmitter - 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 Voltage (info menu) - Output Current setting - Operating Temperature (info menu) - Output Current
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 - Information - ACTIVE/STANDBY pushbutton <p>One On/OFF pushbutton</p>
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.