



VIVAX
METROTECH

Loc-150Tx 150-Watt Transmitter

Technical Specifications V1.5



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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
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 inadvertent.
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: This method applies the signal directly by clipping one output lead to the pipe and 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 frequencies in the range of 3Hz- to 2kHz range 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	The maximum output current is 4A RMS with up to two frequencies. Output is 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 - One On/OFF pushbutton
Compatible Receivers	vLoc3-DM an any vLoc3 series receiver with matching frequencies

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 - Extended warranty available

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

Performance Disclaimer

Actual performance may vary depending on environmental conditions, user technique, and signal interference.

Software & Firmware Disclaimer

Functionality described may depend on the software or firmware version installed. Features are subject to modification through future updates.

Battery & Power Disclaimer

Battery life is estimated and may vary based on settings, usage, temperature, and battery age.

Calibration Disclaimer

Self-Test results confirm system consistency with factory calibration, but do not replace periodic professional calibration if required by company policy or regulation.

Compliance Disclaimer

Compliance with regional standards may vary by country. Users are responsible for ensuring the product is used in accordance with local laws and regulations.

Use Case Disclaimer

The system is intended for professional utility locating and should not be used for purposes outside the manufacturer's defined scope.

Third-Party Services Disclaimer

Use of GNSS correction services or cloud platforms may require third-party subscriptions and are subject to their terms and availability.

Feature Availability Disclaimer:

Certain features, frequencies, or accessories may only be available in specific markets due to regional regulations or product certifications. Please consult your local Vivax-Metrotech representative for availability in your area.

Trademark Disclaimer:

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