



FLS-2 Transmitter

Fiber (Optic) Locate System



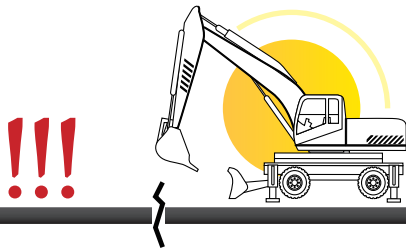
FLS-2 (Fiber Locate System 2) Rack Mount 50-Watt

Fiber optic cables are a critical part of modern life. From the vast amount of data they carry (supporting Global Business) to the individual internet users and emergency services, the FLS-2 system is at the heart of damage prevention for fiber optic cables.

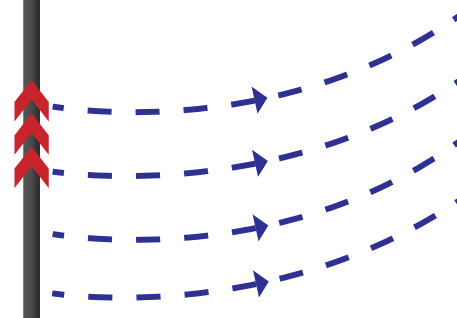
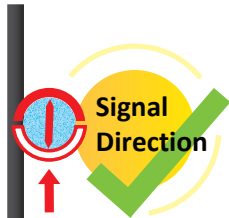
Rack mounted 50-Watt Transmitter

At the heart of the FLS system is the transmitter. The high power locate tone source is typically mounted in a (re-gen) station, customer access point, or central office. It is powered locally by available DC or AC power supplies. The FLS-2 transmits a signal direction locate tone on the metallic sheath of the fiber cable over vast distances to ensure the cable is located quickly and accurately in congested areas.

- Signal Direction (SD) technology
- Custom frequencies available (including ELF)
- Powerful rack-mounted 50-watt transmitter
- Auto impedance matching for maximum efficiency



50-Watt Output



Remote Access and Operation

Remote access and control of the unit saves travel time to the transmitter site, and field technicians can now be dispatched directly to the locating area. Remote access can be achieved by a PC/laptop with a modem, via phone line-telephone network Ethernet access via IP address.



Transmit up to 16 directions



2-Directions



4-Directions



16-Directions

Fiber Optics

Benefits, Advantages and Savings

- Carefully managed transmitter sites and electrical grounding will confirm that the locate tone is applied to the correct line every time.
- Near-perfect grounding at (re-gen) stations ensures maximum locate tone efficiency.
- Fiber optic cable not compromised (example: grounds being lifted and not replaced correctly).
- Signal Direction (SD) tone confirms the correct line is located.
- Permanently installed transmitters allow field operatives to carry only the receiver. One transmitter will support an area of hundreds of kilometers/miles.
- Reduce equipment count and frees up space in the support vehicles.

Increase Revenue

Whether the owner or third parties, Preventing damage is essential to increase customer loyalty.

Fast and efficient identification of lines, reducing the window of potential danger from construction activity operating near a fiber optic line.

A dedicated protection system boosts investor confidence.

Transmitter for Monitoring and Location



When a transmitter is connected to a target line, the signal travels along it and finds the easiest way to travel back, usually via the ground and ground stake. However, the signal will often travel back along adjacent cables or pipes, which offer an easier route.

As a result, multiple signals can radiate from cables and pipes in the area, making it difficult to identify the target line. These return signals typically travel in the opposite direction than the applied signal, and the Signal Direction feature identifies which direction the signal is flowing and the target line.

Information at your fingertips



Rack mount installation

- Standby:** Shows main status: ACTIVE, Mode: SD512 + ELF-10, Health: OK, and a STANDBY button.
- 4-Way Line Select:** Shows a diagram with four lines (L1-L4) and an FLS transmitter icon.
- 16-Way Line Select:** Shows a diagram with sixteen lines (L1-L16) and an FLS transmitter icon.
- Measurement:** Shows 'Measuring Line Impedances' with a table of data for five lines (ELF, SD512, LFS12, LFS40, BK).
- Alarm:** Shows an 'ALARM' screen with the message 'LS Current to low'.
- Freq Select:** Shows a 'Mode' screen with options for 8K, SD512, and SD640.

Touch screen

FLS-2 Compatible Receivers

With omnidirectional antennas, signal distortion is easily detected and displayed on the bright full-color display. Along with the classic locate screens, the vLoc3 series locators offer new locate perspective screens of:

- The **Vector Locate** screen is used for fully automatic, non-walk-over locating.
- **Transverse Graph** shows both peak and null simultaneously, immediately showing signal distortion.
- **Plan View** shows the relative orientation of the cable at any angle.
- **Sonde** mode with guidance arrows leading to the sonde.

The vLoc3 series receivers contain eight passive locate modes, fault-find mode, SD (showing the direction of outgoing current) and a range of configurable frequencies from 16Hz to 200 kHz. All the receivers offer optional Bluetooth communication with GPS modules and real-time mapping.



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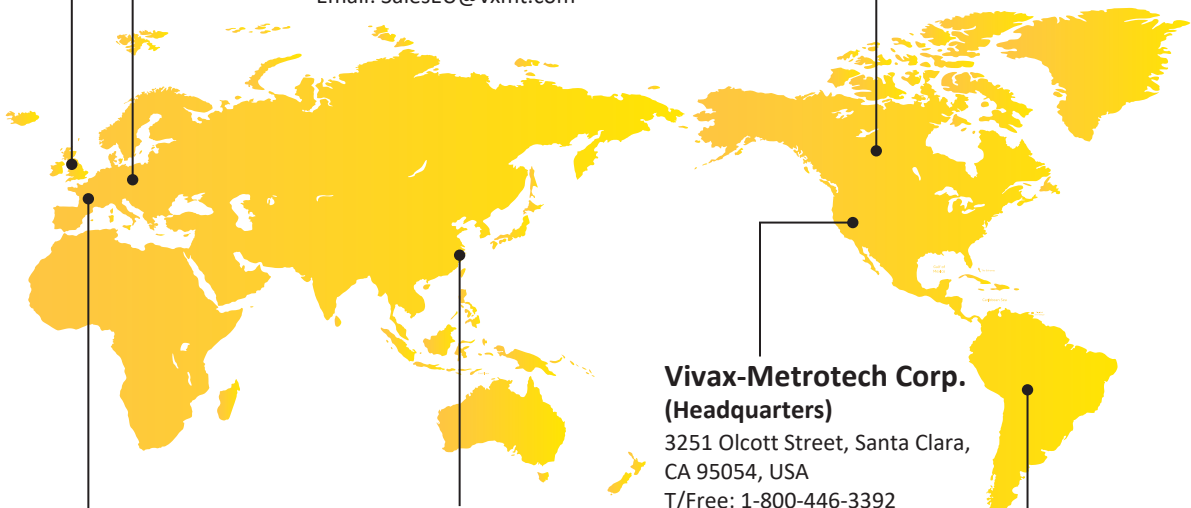
Unit 1, B/C Polden Business Centre, Bristol Road,
Bridgwater, Somerset, TA6 4AW, UK
Tel: +44(0)1793 822679
Email: SalesUK@vxmt.com

Vivax Canada Inc.

41 Courtland Ave Unit 8, Vaughan,
ON L4K 3T3, Canada
Tel: +1-289-846-3010
Fax: +1-905-752-0214
Email: SalesCA@vxmt.com

Metrotech Vertriebs GmbH

Am steinernen Kreuz 10a
D-96110 Schesslitz
Tel: +49 954 277 227 43
Email: SalesEU@vxmt.com



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
Email: SalesCN@vxmt.com.cn

Vivax-Metrotech Corp. (Headquarters)

3251 Olcott Street, Santa Clara,
CA 95054, USA
T/Free: 1-800-446-3392
Phone: +1 (408) 734-1400
Fax: +1-408-734-1415
Email: SalesUSA@vxmt.com

Vivax-Metrotech SAS

Technoparc - 1 allée du Moulin Berger,
69130 Ecully, France
Tel: +33 (0)472 53 03 03
Fax: +33 (0)472 53 03 13
Email: SalesFR@vxmt.com

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
Email: LatinSales@vxmt.com

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