The compact, handheld tool for locating active loop wires.
Senses and measures the loop signal strength.

Loop Finder

Model LF-22

Lets you "see" the electromagnetic field from the loop wires and gives a visual indication of signal strength.
Helps the signal technician find and mark loops prior to excavation projects.
Is the controller missing some calls? A "marginal" detector or bad connections could be causing a weak field at the loop.

Situation

From time to time it is helpful to know the precise location of an active loop that is not readily visible. This situation occurs most often after an intersection has had an asphalt repair or resurfacing which covers up the original loop installation. The position and size of the loops is needed when changes in traffic volumes demand a new analysis of signal timings and phasing. Utility companies that need to maintain or upgrade their underground facilities will ask that the traffic department mark their loops to avoid damage from excavation. For these and other reasons, the ability to find hidden loops is important to any signal maintenance operation.

Solution

The LF-22 Loop Finder detects the electro-magnetic field emitted by standard inductive loop wires and displays a relative strength of the field by lighting a curved row of LEDs on the face of the unit. A higher strength field will light up more LEDs on the fuel-gauge type display. The LF-22 has four levels of sensitivity, which can be manually adjusted to meet the needs of the particular installation. The LF-22 is housed in rugged, handheld ABS enclosure and is powered by a single 9V battery. Even first time users can quickly learn to find and mark their loops.

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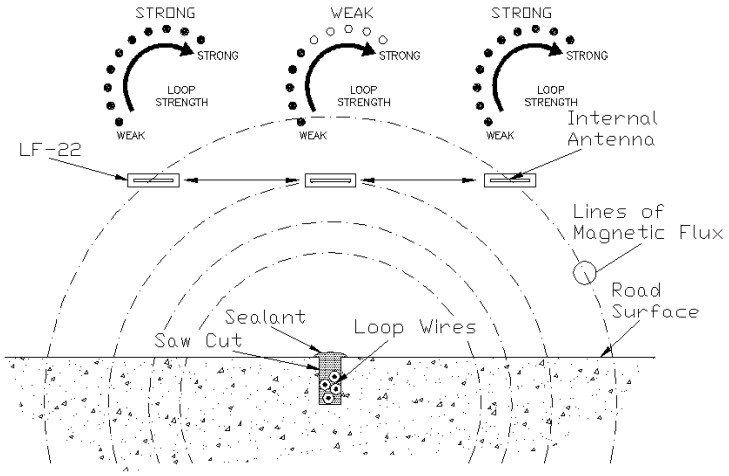
"When all the drawings and plans are gone, how do you find out which detector channel is where?"

Sometimes the task of re-constructing missing documentation could justify the ownership of the LF-22 Loop Finder. "Inheriting" an intersection from another agency can mean incomplete documentation and difficulty in tracking down replacement prints. The LF-22 can be helpful in identifying which loop detector input is wired to which loop location, allowing the field technicians to recreate or verify the detection plans. After taking the appropriate precautions for personnel safety, the system can be put into recall, and the detectors deactivated, and activated one at a time to establish the location of each loop by the controller input number.

The LF-22 was developed for the traffic signal marketplace as the result of suggestions from our valued customers. We believe that it meets a valid need and is designed in a way that makes the unit both rugged enough for field use and affordable. If you need to sense and measure the EMF from your active loop wires, you need the LF-22 Loop Finder. Please visit our website, www.atsi-tester.com, or contact ATSI at the numbers listed below, for product information, operating manuals, software updates, contact information for your ATSI distributor, and the latest new product announcements.



Hold the LF-22 level through the loop's electro-magnetic Field (EMF)

Inductive Loop Finder Specification:

1.0 The Loop Finder shall detect the presence and measure the relative strength of electromagnetic fields, particularly the type generated by highway vehicle sensing inductive loops.

2.0 The Loop Finder ("Unit") shall be lightweight, portable, and battery-operated, using commonly available 9V alkaline batteries.

- **2.1** The Unit shall provide a power-on indicator.
- **2.2** The Unit shall have four sensitivity settings, selectable by slide switches.
- **2.3** The Unit shall include a visual "fuel gauge" style signal strength indicator.
- **2.4** The Unit shall be housed in a handheld enclosure, suitable for field use.
- **2.5** The Unit shall include a bracket, which may be used to fabricate a handle.
- **2.6** The Unit shall weigh less than 1 lb.

3.0 The Unit shall be easy to setup and use by the inexperienced user.

- **3.1** The Unit shall include basic instructions printed on the front panel.
- **3.2** The Unit shall include an Operating Guide.
- **3.3** The manufacturer shall provide telephone technical support during normal business hours.

4.0 The Unit shall include a 12-month Warranty.
4.1 Warranty coverage shall include repair parts (except 9V battery), labor, and shipping from repair facility to the customer only.

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