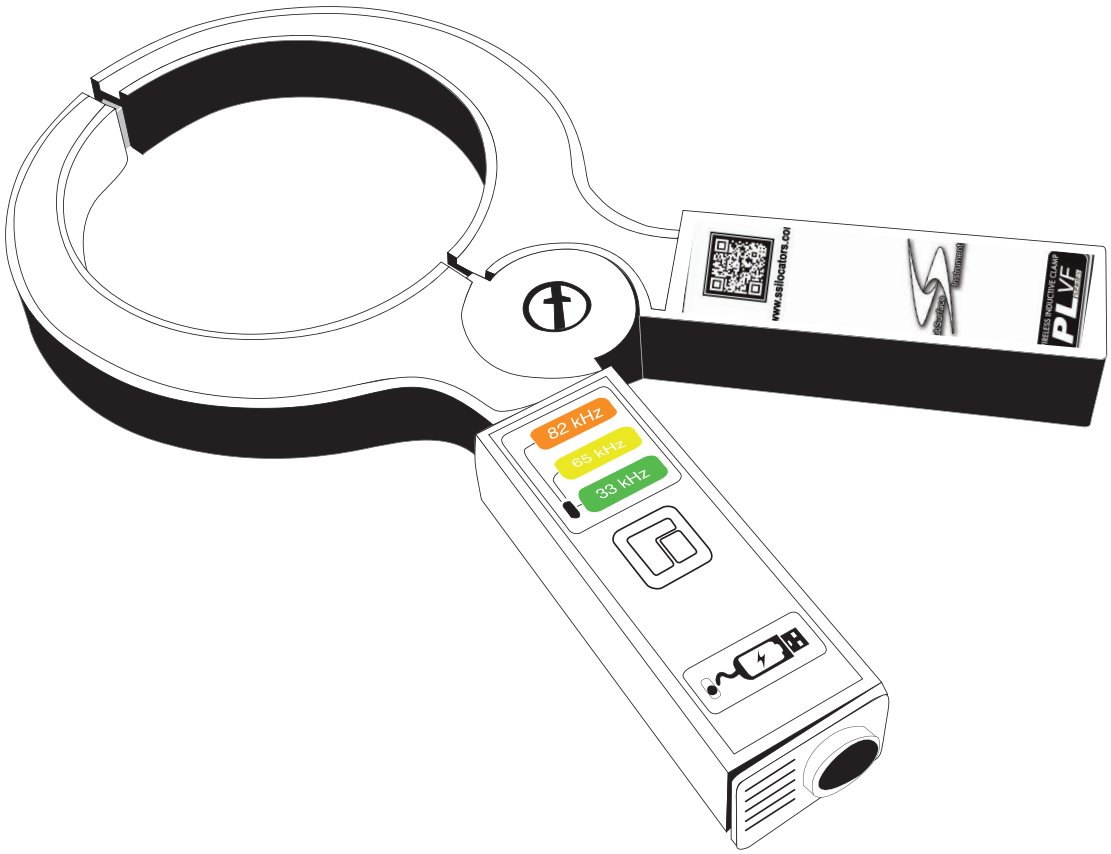
WIRELESS INDUCTIVE CLAMP

Pipe & Cable Locator Accessory

PL VF SERIES PL TT SERIES



SUBSURFACE INSTRUMENTS, INC

User Manual

Instructions, Functions and Warranty Information

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General Information

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Introduction

Congratulations on the purchase of your new SubSurface Instruments, Inc. Wireless Inductive Clamp. The Clamp accessory is a unique tool for inductive coupling. This self-contained inductive transmitter increases productivity, promotes safety and simplifies locates by condensing the transmitter and inductive coupler into one cordless package. Whether climbing down a manhole or accessing a utility box, the Wireless Inductive Clamp is an easy alternative to suiting up with a full transmitter and wired coupler.

Disclaimer Of Liability

SubSurface Instruments, Inc. Shall not be liable to Distributor, Re-Seller, or any other person for any incidental, indirect, special, exemplary or consequential damages, or injury of any type whatsoever, and caused directly or indirectly by Products sold or supplied by SubSurface Instruments, Inc..

Important Notices

⚠ WARNING! Failure to follow these warning could result in serious injury or death.

⚠ WARNING! Only persons qualified and trained to operate cable & pipe locators may operate this equipment.

⚠ WARNING! Follow appropriate safety procedure, your companies policies and applicable safety codes and/or laws.

⚠ WARNING! Do not connect to utilities, cables or pipes without authorization and training.

⚠ WARNING! Use tool only for intended purpose as described in this manual

⚠ WARNING! Do not expose tool to rain or moisture.

⚠ WARNING! Do not expose to hazardous chemicals, hazardous gas or explosive environment.

⚠ WARNING! SHOCK HAZARD - Do not connect to live voltage or active utility lines. De-energize any circuits in or around the work area.

⚠ WARNING! LOCATING is not an exact science. The only certain way to be sure of the existence, location, or depth of buried utilities is to carefully expose (dig up) the utility.

Copyright

Prepare for Use

Unpack your new Wireless Inductive Clamp. Make sure there is no shipping damage and all the parts are included.

The Lithium battery must be charged for 24 hours prior the first use. Make sure to fully charge the battery before each use and to follow the instruction on this manual on how to operate your instrument.

Choose the frequency that works better for the type of locating you are planning to do, then test the connection between the Clamp and the PL-VF transmitter to ensure the whole system is ready to locate.

Follow the instruction on page 6 on how to best insure the optimum connection.

⚠ IMPORTANT

Register Extended Warranty

This instrument is under warranty for 1 year from the date of delivery against defects in material and workmanship (EXCEPT BATTERIES). We will repair or replace products that prove to be defective during warranty period.

By registering your unit online at http://www.ssilocators.com/warranty-registration within one month (30 Days) of purchase, SubSurface Instruments, Inc. will extend the warranty period from 1 year to 4 years.

This warranty is void if, after having received the instrument in good condition, it is subjected to abuse, unauthorized alterations or casual repair.

No other warranty is expressed or implied. The warranty described in this paragraph shall be in lieu of any other warranty, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose. We are not liable for consequential damages.

Scan the QR Code to Register Online

Please Fill up all the fields on our online registration to keep better track of your warranty and allow us to help you with any questions or concerns in a better and accurate way.

SubSurface Instruments Team.

Specifications

Operating Frequencies:	33kHz (32,768Hz), 65kHz (65,536Hz) & 82kHz (82,315Hz)
Output Power Levels:	Low Power / High Power
Power Source:	Rechargeable Li-Ion Battery
Battery Life:	16 Hours (continuous use)
Charging:	Standard USB supply
Operating Temperature:	-4° F to 140° F (-20° C to 60° C)
Inside Diameter:	4.2 Inches (10.67cm)
Dimensions:	5.6" x 10.8" x 1.0" (14.2cm x 27.4cm x 2.4cm)
Weight:	0.8 lbs (0.362kg)
Ingress Protection:	IP65
Country of Origin:	United States

Wireless Inductive Clamp Controls & Indicators

Signal LED Indications

- LED color indicates selected frequency
- Solid LED indicates normal output power
- Rapid flashing LED indicates high-power output
- Slow flashing LED indicates low battery

Key Functions

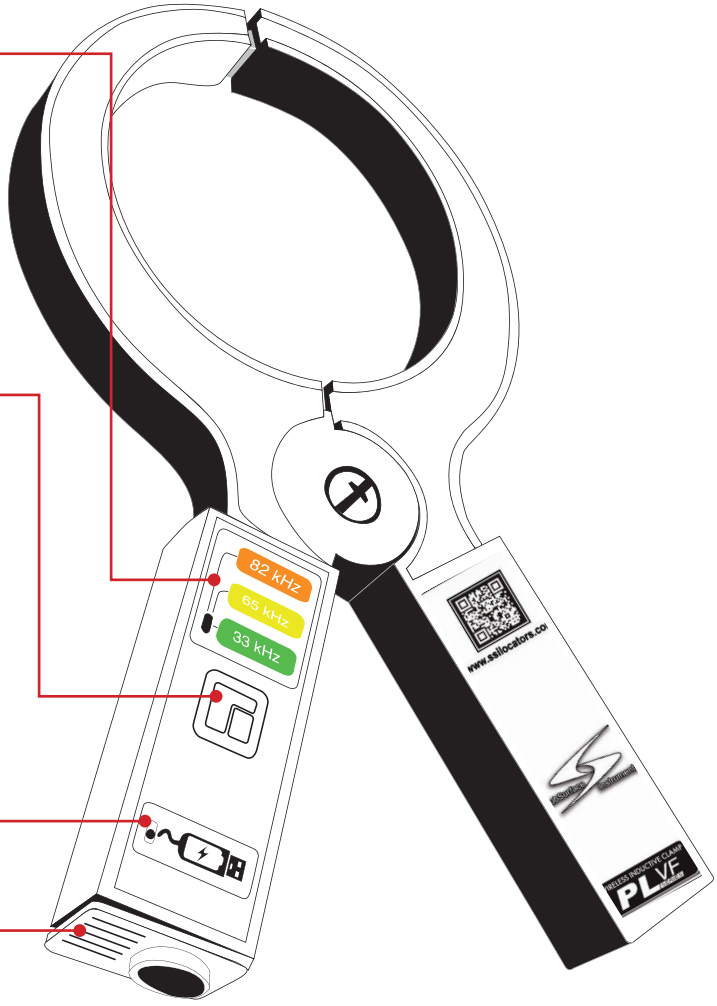
- Short press turns on unit
- Short press toggles frequencies
- Two-second press enables high-power output
- Four-second press turns unit off

Charging LED Indications

- Red LED indicates charging
- Blue LED indicates full charge

Charging Port

- Micro-USB charging under protective plate



Coupler Induction Connection

The Wireless Inductive Clamp is used to induce a tracing signal on a target conductor when direct connection is not possible, and/or when services cannot be interrupted.

Induction coupling may be better than direct connection at applying selective signal to a target conductor with less inadvertent coupling to adjacent lines. It is common for the target conductor to carry the strongest signal, and non-target lines will carry a weaker signal.

Successful coupler operation requires an insulated conductor that is grounded on both near and far ends. It is best to leave the system grounds intact, or ground the line if possible, when coupling signal. Note: An insulated conductor may be traced without near and far end grounds if a sufficient length of cable is buried underground on either side of the point of coupling. In this case the signal will capacitive couple to ground.

- Turn the Clamp ON and select the desired frequency and output power.
- Clamp the coupler around the cable with the coupler around the wire closer to the outgoing cable, not near the system ground. The result will be a stronger signal.

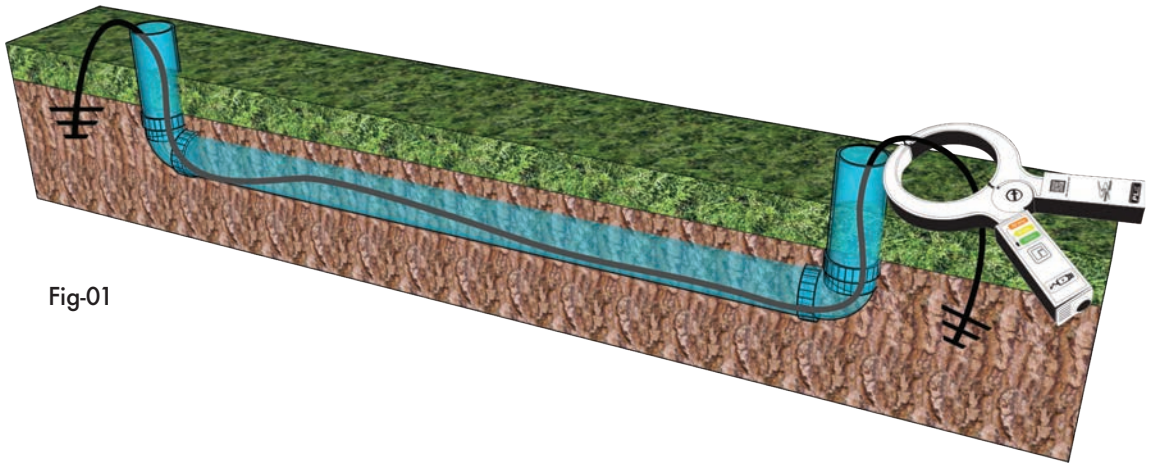


Fig-01

Fig-02

Factory Service

If, the Wireless Inductive Clamp is not working properly, return it to the factory for repair.

The required return information may be obtained by Phone at:(920) 347.1788, Fax: (920) 347.1791, Email:info@ssilocators.com, or at www.ssilocators.com/service

Send it prepaid to:

SubSurface Instruments, Inc.
Repair Department
1230 Flightway Dr
De Pere, WI. 54115. USA

NOTE: Contact your freight forwarder for the most up-to-date restrictions and labeling requirements for products containing Lithium-Ion Batteries.

NOTE: There is a minimum charge for repair and handling. When shipping your instrument, be sure to include:

1. **The name, address, and phone number of your contact.**
2. **A brief description of the trouble.**
3. **A return shipping address & billing address & any special shipping instructions.**

Packing Instructions:
Place the unit to be repaired in the original shipping carton, or equivalent sturdy container. Add packing material around all sides of the unit. Seal the shipping container with strong tape. Failure to package the equipment properly may result in voiding warranty.

Mark the shipping container: FRAGILE ELECTRONIC EQUIPMENT

Compliance

FCC Compliance Statement
This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- The equipment may not cause harmful interference.
- The equipment must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

Industry Canada compliance Statements
This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Modifications
Any changes or modifications to this device, not expressly approved by the RYCOM Instruments, Inc. could void the user's authority granted by the FCC to operate the equipment.

AN INNOVATIVE DESIGN FORCE
IN SUBSURFACE DETECTION & LOCATION

SubSurface Instruments is an innovating force that engineers, manufactures and distributes high-frequency and magnetic locators, pipe and cable locators, leak detectors, leak correlators, bore hole gradiometers and specialty locators.

SSI's most recent innovation, the AML or All Materials Locator, locates buried PVC pipes, PE Pipes, plastic or nearly any other subsurface object more efficiently than ever before. Using patent-protected technology re-engineered by SSI, the AML detects buried PVC pipes and almost every object that other locators can't find.

SSI features a vast line of professional underground and underwater locator products for every need including surveying, construction, ordnance removal, excavation and exploration. Our customers from the petroleum, water, sewer, power, telecom, cable and gas industries rely on SSI's reliability and dependability to make crucial measurements in the world's most challenging conditions. SubSurface Instruments' products are proudly made in the U.S.A. and offer an industry-leading warranty.

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