CLAMPMITTER™

User Manual

RYCOM instruments, inc.

Manual Part # 030-00119-00

Introduction

Congratulations on the purchase of your new RYCOM CLAMPMITTER™ Coupler Induction Transmitter. You have chosen a quality product that is designed for years of field use without the need for annual or periodic calibration and service. For safety and to help ensure the best locating results, please read and understand the manual in its entirety before using the product.

Disclaimer Of Liability

RYCOM Instruments, INC shall not be liable to Customer, Distributor, Reseller, 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 RYCOM INSTRUMENTS, INC.

Important Notices

⚠ WARNING! Failure to follow these warning could result in serious injury, DEATH, or damage to property.

⚠ 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. This equipment is NOT approved for use in areas where hazardous gas may be present.

⚠ WARNING! SHOCK HAZARD - Do not connect to uninsulated conductors. 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.

Warranty

This instrument is under warranty for one 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. 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.

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: . . . . . IP 65
Country of Origin: . . . . . .United States

CLAMPMITTER™ 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

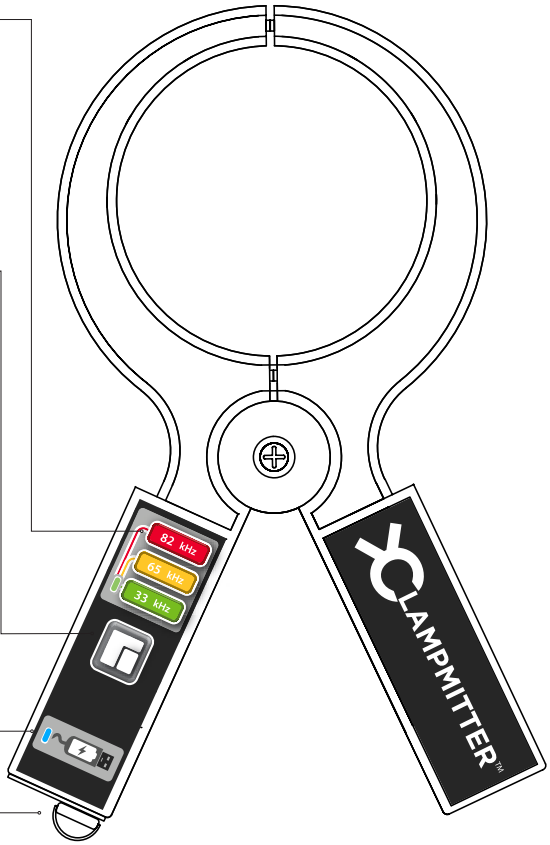
- Short press turns on unit
- Short press toggles frequencies
- Two-second press enables high-power output
- Four-second press turns unit off

Charging LED Indications

- Red LED indicates charging
- Blue LED indicates full charge

Charging Port

- Micro-USB charging under protective plate



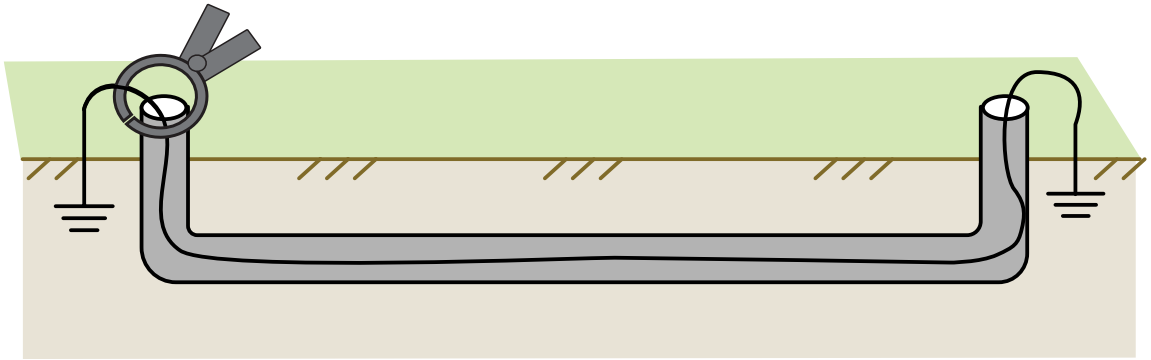
Coupler Induction Connection

The CLAMPMITTER™ 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 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 CLAMPMITTER™ on and select the desired frequencies 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.



Factory Service

If, the CLAMPMITTER™ is not working properly, return it to the factory for repair. The required return information may be obtained by Tel: 816-353-2100, Fax: 816-353-5050, rycom@rycominstruments.com, or at www.rycominstruments.com/ServiceRMA.html.

Send it prepaid to: Rycom Instruments, Inc.
9351 E. 59th Street
Raytown, MO 64133 U.S.A.

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

Replacement Parts

CLAMPMITTER™	100 00349 00
USB Charger	750 00035 00
USB Cable	151 00109 00
Charging Protective Cover	240 00260 00
D-ring 1/4 inch bolt	820 05050 00

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.