RIDGID SeekTech Inductive Signal Clamp User Manual

Contents

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WARNING!
Read this Operator's Manual carefully before using this tool. Failure to understand and follow the contents of this manual may result in electrical shock, fire, and/or serious personal injury.

For support and additional information about using your SeekTech inductive clamp go to support. seesnake.com/clamp or scan this QR code.

Introduction

The warnings, cautions, and instructions discussed in this operator's manual cannot cover all possible conditions and situations which may occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

Regulatory Statements

The CE mark applies to the SeekTech inductive clamp. The EC Declaration of Conformity (999-995-232.10) will accompany this manual as a separate booklet when required.
This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interfer-ence received, including interference that may cause undesired operation.

Safety Symbols

In this operator's manual and on the product, safety symbols and signal words are used to communicate important safety information. This section is provided to improve understanding of these signal words and symbols.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE indicates information that relates to the protection of property.

This symbol means read the operator's manual carefully before using the equipment. The manual contains important information on the safe and proper operation of the equipment.

This symbol means always wear safety glasses with side shields or goggles when handling or using this equipment to reduce the risk of eye injury.

This symbol indicates the risk of electrical shock.

General Safety Rules

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

Work Area Safety

- Keep your work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate equipment in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Equipment can create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating equipment. Distractions can cause you to lose control.
- Avoid traffic. Pay close attention to moving vehicles when using on or near roadways. Wear visible clothing or reflector vests.

Electrical Safety

- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electrical shock if your body is earthed or grounded.
- An improperly grounded electrical outlet can cause electrical shock and/or severely damage equipment. Always check work area for a properly grounded electrical outlet. Presence of a three-prong or GFCI outlet does not ensure that the outlet is properly grounded. If in doubt, have the outlet inspected by a licensed electrician.
- Do not expose equipment to rain or wet conditions. Water entering equipment will increase the risk of electrical shock.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, and moving parts. Damaged or entangled cords increase the risk of electric shock.
- If operating equipment in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.
- Keep all electrical connections dry and off the ground. Do not touch equipment or plugs with wet hands to reduce the risk of electrical shock.

Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating equipment. Do not use

equipment while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating equipment may result in serious personal injury.

- Use personal protective equipment. The appropriate use of protective equipment such as safety glasses, a dust mask, non-skid safety shoes, a hard hat, high visibility clothing, and hearing protection will reduce personal injuries.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the equipment in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, and long hair can be caught in moving parts.

Equipment Use and Care

- Do not force equipment. Use the correct equipment for your application. The correct equipment will do the job better and safer at the rate for which it is designed.
- Do not use equipment if the power switch does not turn it on and off. Any equipment that cannot be controlled with the power switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or the battery pack from the equipment before making adjustments, changing accessories, or storing. Preventive safety measures reduce the risk of injury.
- Store idle equipment out of the reach of children and do not allow persons unfamiliar with the equipment or these instructions to operate the equipment. Equipment can be dangerous in the hands of untrained users.
- Maintain equipment. Check for misalignment or binding of moving parts, missing parts, breakage of parts, and any other condition that may affect the equipment's operation. If damaged, have the equipment repaired before use. Many accidents are caused by poorly maintained equipment.
- Use the equipment and accessories in accordance with these instructions; taking into account the working conditions and the work to be performed. Use of the equipment for operations different from those intended could result in a hazardous situation.
- Use only accessories that are recommended by the manufacturer for your equipment. Accessories that may be suitable for one piece of equipment may become hazardous when used with other equipment.
- Keep handles dry, clean, and free from oil and grease. This allows for better control of the equipment.

Pre-Operation Inspection

WARNING
To reduce the risk of serious injury from electrical shock or other causes, and to prevent damage to your equipment, in-spect all equipment and correct any problems before each use.

To inspect all equipment, follow these steps:

1. Power off your equipment.
2. Disconnect and inspect all cords, cables, and connectors for damage or modification.
3. Clean any dirt, oil, or other contamination from your equipment to ease inspection and to prevent it from slipping from your grip during transportation or use.
4. Inspect your equipment for any broken, worn, missing, misaligned, or binding parts, or any other condition which might prevent safe, normal operation.
5. Refer to the instructions for all other equipment to inspect and make sure it is in good, usable condition.

6. Check your work area for the following:
    - Adequate lighting.
    - The presence of flammable liquids, vapors, or dust that may ignite. If present, do not work in area until sources have been identified and corrected. The equipment is not explosion-proof. Electrical connections can cause sparks.
    - A clear, level, stable, and dry place for the operator. Do not use the equipment while standing in water.
7. Examine the job to be done and determine the correct equipment for the task.
8. Observe the work area and erect barriers as necessary to keep bystanders away.
9. Inspect the line to have a signal applied to it.
    - The clamp should only be used on insulated conductors. When using the clamp, the target conductor should be grounded at each end. Otherwise, the signal may not be strong enough to locate. When applying the clamp between two grounded points, the signal will only be on the section between grounds.
10. Determine the correct equipment for the application. The Inductive clamp is most commonly used on:
    - Telephone cables
    - Power cables
    - CATV cables
    - Pipes

See additional product-specific safety information and warnings starting on 8.

Product Overview

Description
The RIDGID® SeekTech® Inductive Clamp allows users to apply a signal to a cable or pipe that is 119 mm [4.7 in] or less in diameter when it is not possible to connect transmitter leads directly to the target conductor. When its jaws are closed around a cable or pipe, the clamp couples the transmitted signal onto the conductor by induction. Once the signal is applied to a conductor, it can be traced using a compatible receiver, such as the SeekTech SR-20, SR-24, or SR-60.
Any SeekTech Line Transmitter (e.g., ST-33Q+, ST-510, ST-305/R) or comparable line transmitter which has a 10 watt or less maximum output power if frequency is under 45 kHz, and a 1 watt maximum if above 45 kHz, can be used as a power source. The line transmitter must be jack-plug compatible. The clamp may be used with line transmitter frequencies of 8 kHz to 262 kHz.

Specifications

Specifications	
Weight	0.49 kg [1.1 lb]
Dimensions	
Height	264 mm [10.4 in]
Width	148 mm [5.8 in]
Depth	36.8 mm [1.5 in]
Inside diameter	119 mm [4.7 in]
Cable length	0.75 m [2.5 ft]
Power source	Line transmitter with 10 watt or less max output power with frequency < 45 kHz, or 1 watt max if > 45 kHz
Frequencies	8 kHz to 262 kHz
Operating environment	
Temperature	-10°C to 50°C [14°F to 122°F]
Storage temperature	-20°C to 60°C [-4°F to 140°F]
Relative humidity	5% to 95%
Altitude	4,000 m [13,120 ft]

Standard Equipment

- Inductive clamp
- Cord with jack plug
- Operator’s manual

Components

Specific Safety Information

WARNING
This section contains important safety information that is specific to the Inductive Clamp. Read these precautions carefully before using the Inductive Clamp to reduce the risk of electrical shock, fire, or another serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE!

Inductive Clamp Safety

- Read and understand this operator’s manual, and the instructions for any other equipment in use and all warnings before operating the Inductive Clamp. Failure to follow all instructions and warnings may result in property damage and/or serious personal injury. Keep this manual with the equipment for future use.
- Operating the equipment while in water increases the risk of electrical shock. Do not operate the Inductive

Clamp if the operator or equipment are standing in water.

- The Inductive Clamp is not designed to provide high voltage protection and isolation. Do not use where a danger of high voltage contact is present.
- Always connect clamp before turning the transmitter on and always power off the transmitter before disconnecting the clamp to reduce the risk of electrical shock.
- Follow local guidelines and call before digging. Locating equipment uses electromagnetic fields that can be distorted and interfered with. More than one utility may be present in a given area. Follow local guidelines and service procedures. Confirm location of utilities before digging.
- Do not handle the transmitter while you are connected directly to ground to reduce the risk of electrical shock.
- Use only on insulated conductors. When using on cables energized with electrical power, there is a risk of electrical shock.

Operating Instructions

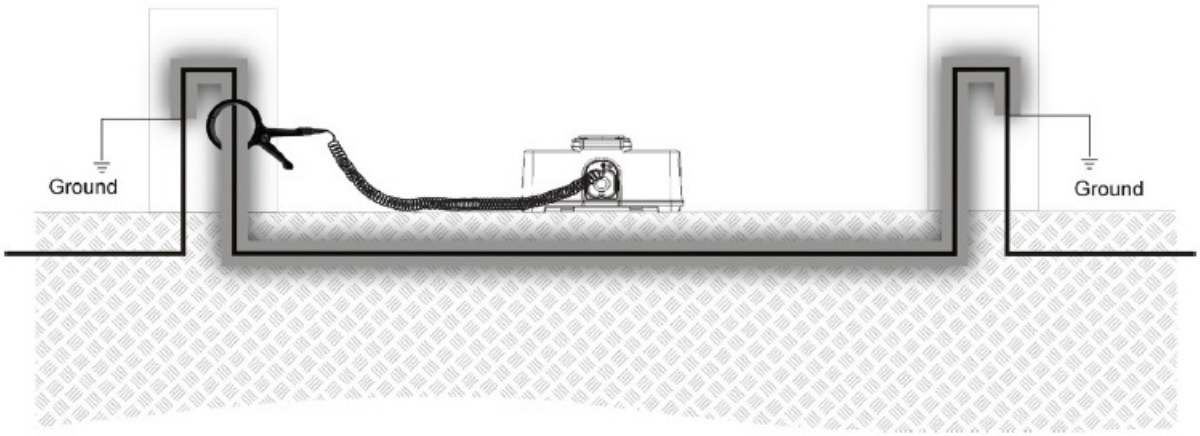
WARNING
Read the Operator's Manual for the transmitter and receiver you are using prior to using the inductive clamp for important safety information and operating instructions.

Connecting the Inductive Clamp

1. Ground the conductor to be traced at both ends (see graphic below).
2. With the transmitter powered off, insert the plug into the jack on the back of the transmitter.
3. Place the jaws of the inductive clamp around the target conductor, ensuring that they close completely.

Tracing the Line

1. Power the transmitter on and select the desired frequency. The LEDs on the clamp are lit when the jaws are closed and the transmitter is powered on.
   The clamp can be used with frequencies from 8 kHz to 262 kHz.
2. Move the receiver over the conductor's path and trace the signal.
3. After completing the locate, power off the transmitter before touching or disconnecting the clamp.



Maintenance

Product Support

For support and additional information about using the inductive clamp, visit **sup-port.seesnake.com/clamp**.

Cleaning

WARNING

Make sure inductive clamp is unplugged from transmitter before cleaning.
The plastic housing may be cleaned with mild cleaner applied to a cloth. Never submerse the clamp in liquid.
Clean the metal core where the jaws clamp together so no debris or dirt gets between the jaws.

Transport and Storage

- Store in a locked area out of the reach of children and people unfamiliar with its purpose.
- Store in a dry place to reduce risk of electrical shock.
- Store away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- Storage temperature should be -20 °C to 60 °C [-4 °F to 140 °F].
- Do not expose to heavy shocks or impacts during transport.

Service and Repair

WARNING

Improper service or repair can cause the inductive clamp to be unsafe to operate.
Service and repair of the inductive clamp must be performed at a RIDGID Independent Authorized Service Center. To maintain the safety of the tool, make sure a qualified repair person services your equipment using only identical replacement parts. Discontinue using the inductive clamp and contact service personnel under any of the following conditions:

- The equipment does not operate normally when operating instructions are followed.
- The equipment exhibits a distinct change in performance.
- The equipment has been dropped or damaged.
- Liquid has been spilled or objects have fallen into the equipment.

For information on your nearest RIDGID In-dependent Service Center or any service or repair questions:

- Contact your local RIDGID distributor.
- Go to **www.RIDGID.com**.
- Contact Ridge Tool Company Technical Service Department at **rtctechservices@emerson.com** or, in the U.S. and Canada, call 1-800-519-3456.

Disposal

Parts of the unit contain valuable materials that can be recycled. There are companies that specialize in recycling that may be found locally. Dispose of the components in compliance with all applicable regulations. Contact your local waste management authority for more information.
For EC countries: Do not dispose of electrical equipment with household waste!
According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment and its implementation into national legislation, electrical equipment that is no longer usable must be collected separately and disposed of in an environmentally-correct manner.

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Documents / Resources

	**RIDGID SeekTech Inductive Signal Clamp** [pdf] User Manual SeekTech, Inductive Signal Clamp, Signal Clamp, Inductive Clamp, Clamp

References

- Sewer Cameras, Reels, Monitors & Recorders | RIDGID Tools
- Rugged Jobsite Tools | RIDGID Tools