



## PRODUCT INSTRUCTIONS MODEL AC-15 AC WARNING SYSTEM

PORTABLE – AC Warning System to Alert in the event of AC detected on a pipeline

### FEATURES

- Visual Alarm
- Audible Alarm
- Replaceable 9v Battery
- Green Power ON LED Indicator
- Isolated Toggle Switch

### PACKING LIST

- Instrument
- Earthing Rod
- Cable, 6' Length, with Clamp
- Battery, 9V
- Instructions
- Warranty Card (90 Days)

### NOT FOR USE IN AN EXPLOSIVE ATMOSPHERE

### UNPACKING

When received, immediately open the package and refer to the Packing List to ensure all products and accessories are accounted for and there is no damage to the equipment from shipping. If damage has occurred, immediately open a claim with the shipping company.

### GENERAL

The AC-15 AC Warning System is designed to detect induced AC on pipelines. The AC-15 is designed to be used in the field at locations where personnel will or might come into contact with pipelines where induced AC is suspected or may be indicated.

It is suggested that a person responsible for watching the instrument be in close proximity to the instrument and in a position to clearly see and hear the alerts.

Using the supplied earthing rod and a direct connection to the pipe (structure), such as through a test station, the AC-15 will activate Audible and Visual (LEDs) alerts when AC is measured through the circuit. The AC-15 will begin indication when 7 volts of AC is measured. The audible and visual alerts will become more prominent as the AC levels increase. Full alarm will occur at approximately 15v AC. The circuit consists of the instrument, cables, earthing rod in contact with soil and the bare steel of the pipe (structure).

### PRECAUTIONS

**The AC-15 should only be used in non-hazardous (unclassified) locations. It has not undergone testing for use in hazardous (classified) locations.**

### CONNECTION

The Model AC-15 AC Warning System is comprised of the instrument and battery, cable with clamp and an earthing rod for ground connection.

Connect the supplied cable to the banana jack on the instrument case labeled Structure. Make a good, low resistance connection of the cable lead to the pipe or structure. Ensure the earthing rod is screwed into the back of the instrument. Do not over tighten. Move the toggle switch to On and note the Green LED lights.

Push the earthing rod into soil making good surface area connection between the rod and earth.

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If the Audible and Visual alerts are activated, the instrument has detected AC in the circuit, and appropriate cautions should be taken.

### BATTERY

The AC-15 is designed to use a replaceable 9-volt battery. The battery is stored in a battery holder on the case with a slide out cover. The holder is located on the portion of the panel, below the toggle switch. Using a finger push on the arrows of the cover and slide the battery cover off. Replace batteries as needed, or prior to each use.

The 9v battery should operate the instrument for more than 24 hours of continuous use. Alarms will shorten life of battery significantly.

**NOTE: the Audible and Visual alerts rapidly decrease battery levels.**

### CHARGING

The AC-15 has been designed to use standard alkaline batteries. It is not recommended that rechargeable Li-Ion or NiMH batteries be used with this instrument.

### STORAGE

The AC-15 instrument comes in a carrying case that has a storage area inside for the instrument, cable, and earthing rod. When not in use, the instrument should be turned Off and cable and earthing rod disconnected and stored inside the carrying case.

### CALIBRATION AND REPAIR

Tinker & Rasor suggests an annual calibration check on the Model AC-15 instrument. This test should be performed by Tinker & Rasor trained personnel only.

It is strongly suggested that all repairs be performed by Tinker & Rasor. **All warranty work must be performed by Tinker & Rasor.** Many of the AC-15 components may not be readily available to outside repair agencies.

### Ship To:

**Tinker & Rasor  
ATTN: Repairs  
791 S. Waterman Ave  
San Bernardino, CA 92408**

### WARRANTY

Ninety-day warranty on Parts and Labor.

### TECHNICAL SUPPORT

Should you require assistance with the AC-15 or any Tinker & Rasor product, please call (909) 890-0700 Monday through Friday 7:30 am to 4:00 PM Pacific time.



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