ETR Telephone Ringer

APPLICATION

ETR Telephone Ringer is used with Crouse-Hinds type ETW401 telephone for communication in hazardous industrial environments, such as a plant evacuation or other communication needs.

ETR1 Telephone Ringer is suitable for use in Class I, Groups B/C/D, Class II, Groups F, G, and Class III hazardous (classified) areas as defined by the National Electrical Code (NEC).

ETR1 Telephone Ringer is for use in low ambient noise areas, having a ring tone level similar to a general use telephone. The ringer assembly includes a ring detent relay which is powered by the ETW401 telephone line voltage.

FCC REQUIREMENTS

This equipment complies with Part 68 of the FCC rules. Located on the side of the ETW401 telephone enclosure is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of these devices ring when your telephone number is called. In most, but not all areas, the sum of the RENs of all devices connected to one line should not exceed five (5). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn’t practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes to its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact Crouse-Hinds, Syracuse, New York for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

INSTALLATION

WARNING

• Be sure that all electrical power is OFF before starting installation or maintenance.
• Remove fuses from telephone line fuse block and line protectors, if used.
• The conduit system, accessories and telephone housing must be permanently grounded.

Bonding and Grounding

Bonding and grounding of the conduit and equipment is required by the National Electrical Code. When more than one conduit enters an enclosure, ground continuity between conduits must be maintained through proper bonding. A grounding conductor, if used, must be connected to the conduit bonding system. Use wire type and size as required by NEC and any other applicable standards.

1. Install ETR1 ringer adjacent to the ETW401 telephone.

2. Securely fasten enclosure to mounting surface using 1/4-20 bolts or screws.

CAUTION

• Select a mounting location so that the enclosure will not be subjected to impact by heavy objects. Impacts can damage enclosed ringer or cover disc. See Figure 1.
• The hazardous location information specifying class and group listing of each instrument enclosure is marked on the nameplate of each enclosure.
• All unused conduit openings must be plugged. Plug unused openings with Crouse-Hinds PLG2. Plugs must be a minimum of 1/8 inch thick and engage a minimum of 5 full threads.
MAINTENANCE

WARNING
If any part of the telephone or accessories appears to be broken or damaged,
DISCONTINUE USE IMMEDIATELY.
Replace or properly repair the item(s) before continuing service.

WARNING
Always disconnect line to telephone and primary power source to auxiliary signal before opening enclosures for inspection or service.

1. Frequent inspection should be made. A schedule for maintenance checks should be determined by the environment and frequency of use. It is recommended that it should be at least once a year.

Servicing Precautions
OPENING UNIT HOUSINGS
Great care MUST be exercised in “de-activating” the entire telephone installation before opening any unit housings for service or inspection. To ensure safety, all operations outlined in the following instructions MUST be carried out in the exact sequence specified before any housings are opened:

a. Using a screwdriver, turn the line switch to the "OFF" position to disconnect the line wires from the telephone and the discharge instrument condensers.

b. Remove the fuses from the fuse block and the line protector to make the line wires “dead”.

c. If the installation is equipped with power cut-off switch, turn it to the "OFF" position, using a screwdriver, to disconnect the power source from the associated power relay and the auxiliary signal. Also, remove the fuses from the 115-volt power service supply to make the power wires “dead”.

Any or all units of the telephone installation may now be opened.
Refer to installation information provided with telephone accessories for servicing or inspection instructions.

2. Perform visual, electrical, and mechanical checks on all components on a regular basis.
  • Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts, or leakage evidenced by water or corrosion in the interior.
  • Electrically check to make sure that all connections are clean and tight.
  • Mechanically check that all parts are properly assembled, and operating mechanisms move freely.

3. We recommended an Electrical Preventive Maintenance program as described in the National Fire Protection Association Bulletin NFPA No. 70B.
3. Install Crouse-Hinds EYS Sealing Fittings required by Section 501-5 and/or 500-6 of the National Electrical Code as well as any other applicable codes.

4. Unthread enclosure cover and carefully set it aside to prevent damage to the cover threads.

5. Pull telephone line wires into enclosure making certain they are long enough to make the required connections and to remove the ringer if servicing is required. Make all telephone connections per Figure 2.

6. Connect grounding conductor to the green ground screw provided.

7. Test wiring for correctness by checking continuity and also check for unwanted grounds with insulator resistance tester. Make sure test equipment being used will not damage ringer housed in the enclosure.

8. Carefully retread cover to enclosure housing. Tighten cover until cover flange contacts body face. See CAUTION below.

**MAINTENANCE**

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**DISCONTINUE USE IMMEDIATELY.**
Replace or properly repair the item(s) before continuing service.

**WARNING**
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Installation And Maintenance Information

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