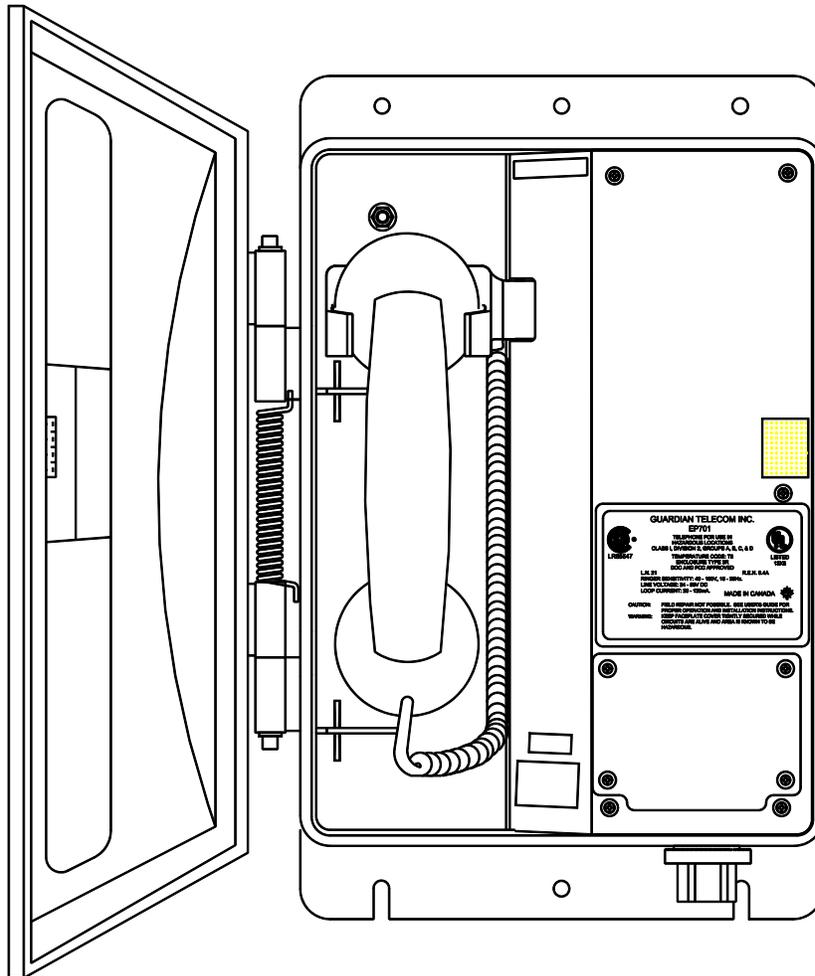


Hazardous Area Ringdown Telephone

Model EP701

Installation & Operation



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Introduction

The EP701 is a ringdown telephone designed to provide safe, reliable communication in Class 1, Division 2, hazardous locations. The unit is housed in a rugged, weather and corrosion resistant enclosure that ensures the EP701 can operate in severe conditions.

Equipment List

- (1) EP701 Telephone
- (1) Installation & Operation Manual

Features

<i>Feature</i>	<i>Description</i>
Enclosure	<ul style="list-style-type: none">• Weather-tight rugged Valox & steel.• Hinged door.• Stainless steel mounting bracket.
Epoxy resin circuitry coating	<ul style="list-style-type: none">• Encapsulates all of the internal circuit boards.• The circuit boards are resistant to corrosive agents (i.e., H₂S, SO₂, and NH₃), and environments with high humidity.
Magnetic Reed Hook Switch	<ul style="list-style-type: none">• No moving parts.
Surge Arrestor	<ul style="list-style-type: none">• Prevents damage to the electronic circuits in the event of a high voltage spike on the telephone line.
Noise reducing microphone	<ul style="list-style-type: none">• Allows for better intelligibility in locations with high background noise.
Heavy Duty Handset Cord	<ul style="list-style-type: none">• For excessive use.
Hearing-aid compatible	<ul style="list-style-type: none">• Compatible with inductively coupled hearing-aid devices.

Figure 1 Features

Overall Dimensions

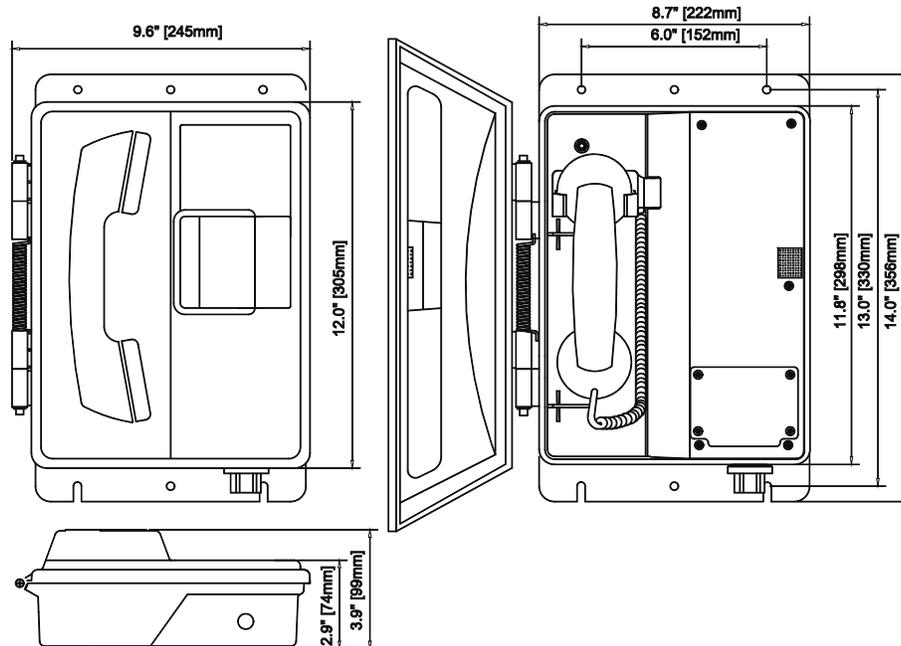


Figure 2 Overall Dimensions

Installation

NOTE: EP701 Telephone must be installed following appropriate electrical codes using approved electrical fittings.

1. Choose a wall location that is free of obstructions and permits space for ½" NPT conduit runs.
2. Use the telephone as a template to locate and drill mounting holes (Fig.2.) Use (#8 or M4) screws to secure the unit to the wall. Ensure mounting can support 6.5lbs/2.95kg
3. Ensure all electric circuits to be connected are not live.
4. Secure the unit to the wall, open door and remove the (4) #8 Philips drive screws on the access plate.
5. Connect an approved earth ground to the center post of the surge arrestor.
6. Connect the TIP/RING wires from the PABX or CO to the Orange and Blue wires on the surge arrestor. (The unit is not polarity sensitive.)
7. Ensure all connections are tight, then replace the access plate and secure with (4) #8 Philips drive screw.
8. Test the unit by calling from another unit on the exchange.

Operation

MODEL EP701

Open the door and remove the handset from the cradle to be automatically connected with someone at the other end. Return the handset to the cradle when your call is complete.

Configuration

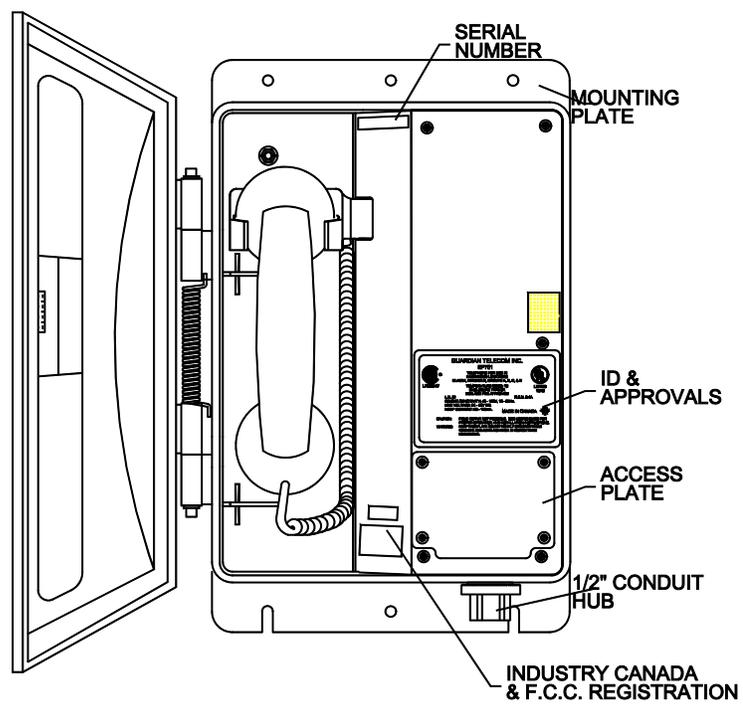


Figure 3 Model EP701

Engineering Specifications

ELECTRICAL PERFORMANCE

AUDIBLE RANGE FREQUENCY RESPONSE	300 - 3400 Hz
TRANSMIT OBJECTIVE LOUDNESS RATING (TOLR)	-41 +/- 4 dB
RECEIVE OBJECTIVE LOUDNESS RATING (ROLR)	TYPICAL 52 +/- 3 dB
SIDE TONE OBJECTIVE LOUDNESS RATING (SOLR)	TYPICAL 11 +/- 4 dB
RINGER OUTPUT	>50 dB
FCC RINGER EQUIVALENCE	0.4A
SET IMPEDANCE	600 OHMS NOMINAL
MAXIMUM LOOP	15 KFT of 22 AWG COPPER

ELECTRICAL REQUIREMENTS

RINGER SENSITIVITY	40 - 100 V, 16 - 25 Hz
LINE VOLTAGE	24 - 56 VDC
LOOP CURRENT	20 - 120 MA
CONNECTION METHOD	SURGE ARRESTOR / TERMINAL BLOCK

ENVIRONMENTAL

WEATHERPROOF	ENCLOSURE 3R
TEMPERATURE	-40° TO +60° C (-40° TO +140° F)

HUMIDITY	0 – 95% RH
DUSTPROOF	CLASS II HAZARDOUS LOCATIONS
CORROSION RESISTANT	MIL-STD-810E SALT FOG

MECHANICAL SPECIFICATIONS

HOOK SWITCH (CRADLE SWITCH) LIFE	>1 000 000 OPERATIONS
BODY CONSTRUCTION	GE VALOX 357 ^R ENGINEERING POLYMER
DIMENSIONS	14 x 9.6 x 4.1 INCHES 356 x 245 x 104 MM
NET WEIGHT	6.5 LBS (2.95 KG)
HANDSET MATERIAL	HIGH IMPACT ABS
MICROPHONE	NOISE REDUCING ELECTRET
OPTIONAL MICROPHONE	NOISE CANCELING DYNAMIC
RECEIVER	HEARING AID COMPATIBLE
STANDARD MOUNTING	VERTICAL WALL
CONNECTION FITTINGS	1/2" NPT CONDUIT HUB
HARDWARE MATERIAL	STAINLESS STEEL

COMPLIANCE'S

HAZARDOUS LOCATIONS PERMISSIONS	CLASS I, DIVISION 2, GROUPS A, B, C & D
CSA	LR65547
UL	13X8, & E117495
DOC	1012 6721 A
FCC	HQHCAN-22517-TE-E
WEATHERPROOF	ENCLOSURE 3R
ENVIRONMENTAL SURVIVABILITY	MIL-STD-810E

Figure 4 Specifications

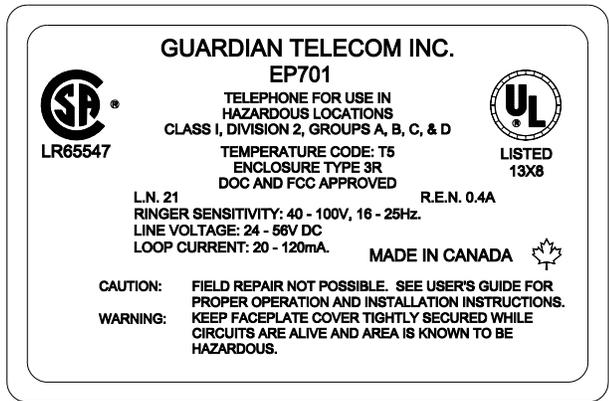


Figure 5 ID and Compliance

Government Certification

Attached to the telephone are labels for *Industry Canada* and the *United States Federal Communications Commission*. These identify equipment certifications indicating the 70 series telephones meet certain telecommunications network protective, operational and safety requirements. These agencies do not guarantee the equipment will operate to the user's satisfaction.

Before installing this telephone equipment, users should ensure it is permissible to connect the equipment to facilities of the local telecommunications company.

Equipment must be installed using acceptable connection methods. In some cases, the telephone users inside wiring, associated with a single line service, may be extended by a certified connector assembly (telephone extension cord). The customer should be aware that in some situations compliance with the above conditions may not prevent degradation of service.

Repairs to certified equipment should be made by a supplier designated authorized maintenance facility.

For their own protection users should ensure the electrical ground connections of the power utility, telephone lines and internal metallic water pipe systems, if present, are connected. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make ground connections, but should contact the appropriate electrical inspection authority or electrician.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop used by the device. Termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100.

Notification to Telephone Company

Upon request, the customer must notify the telephone company of the particular line to which the connection will be made and provide the Industry Canada or FCC registration number. The local telephone company may request disconnection of the telephone where alterations or malfunctions affect the telephone's performance.

United States Federal Communications Commission

This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications.

It has been tested and found to comply with the limits for Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

There is no guarantee that interference will not occur in a particular installation. If interference to radio or television reception from this equipment is suspected, proceed as follows:

1. Unplug the set, check for the interference.
2. Re-orient the receiving antenna.
3. Relocate the set with respect to the receiver.
4. Move the set away from the receiver.

If necessary, consult the supplier or an experienced radio/television technician for additional suggestions.

This equipment complies with Part 68 of the FCC Rules. On the side of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five. To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

This equipment can not be used on public coin telephone service as provided by your telephone company. Connection to party line service is subject to state tariffs (contact the state public utility commission, public service commission or corporate commission for information.)

Warranty

Guardian Telecom warrants your product to be free of defects in material and workmanship for a period of one year. Guardian Telecom will repair or replace any defective unit that is under warranty, free of charge.

This warranty is null and void if any non-authorized modifications have been made to this product, or if it has been subjected to misuse, neglect, or accident. This warranty covers bench repairs only; such repairs must be made at Guardian Telecom or an authorized service depot. Guardian Telecom is not responsible for costs incurred for on-site service calls, freight, or brokerage.

A return authorization must be obtained prior to warranty claims or repairs.

Disclaimer

The products covered by this manual are designed for use in Industrial Environments and/or Hazardous Locations. Due to the range of possible applications for these instruments the manufacturer will not be responsible for damages or losses of any kind suffered as a result of the use of this product, including consequential damages.

Warning

For the purposes of installing the product and replacing fuses only, this device may be opened and reassembled by qualified personnel, following the instructions in the product manual. In the cases of explosion proof and hazardous area devices it is imperative that mating surfaces be clean and undamaged prior to reassembly and that fasteners be made up to the specified torque.

Service Telephone Number

1-800-363-8010

Guardian Telecom provides a customer service telephone number which is toll-free within North America. If you need assistance when installing or operating this product, please call the toll-free telephone number between regular business hours (8:00AM-5:00PM), Mountain Standard Time. If you are calling outside of regular business hours, please leave a detailed message, and a member of Guardian Telecom's Service Department will return your call as soon as possible. If your product requires service, Guardian personnel will supply you with an RMA (return materials authorization) number over the telephone or through our web site product return page. This number must be included with your return address and the name of the person to contact.

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www.guardiantelecom.com
E-mail: sales@guardiantelecom.com**

Feedback

Guardian Telecom continually strives to make reliable, durable, and easy to use products. If you, as an installer or user of our equipment, have any suggestions for improvements to this or any of our products or documents, including this manual, we would appreciate hearing from you.

Guardian Product Return

Guardian products have been quality tested and are in full working order when shipped from the factory, given the rugged nature of these products, shipping is not expected to damage a unit. In the unlikely event of a malfunction, Guardian follows the three step procedure below.

Step I - On-Site Correction

The most common source of difficulties with a new product is improper installation in one of two ways: incorrect wiring connections or connection to an incorrect power source.

Product wiring needs to be properly connected to the on-site wiring. Correct wiring instructions are shown in the user manual included with the product.

Connecting a telephone to a standard power source, rather than tip & ring, will blow the telephone's internal, user-replaceable fuse. In the event of fuse burn-out, disconnect the telephone from the power source, replace the fuse, and reconnect following the wiring diagrams provided with the product.

Step II - Return Materials Authorization (RMA)

When a product has been installed following user manual instructions, and the unit fails to operate, the user must contact Guardian Telecom to obtain authorization to return the product.

After providing information on the product, the owner and the nature of the problem, Guardian will issue a RMA number, to be shown on documentation returned with the product.

In addition to the RMA number, shipping documents should include name, address and telephone number of the owner along with contact information for the person responsible for the repair and/or the user who identified the malfunction.

(Where a product is being returned for repair from outside of Canada, customs documentation must show the product's serial number, date of export [date of purchase], and a notation that the equipment is: "Canadian goods returning.")

Step III - Factory Authorized Service

Once received, each product is carefully inspected and tested. If the product is under warranty, repairs are completed and the product returned to the owner, generally within five working days of receipt by the factory.

A product that has been subjected to misuse, neglect or accident or is beyond the warranty period will be evaluated. The service department will provide the owner's representative with a repair cost estimate. Once approved, repairs are completed and the product returned, generally within five working days.

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