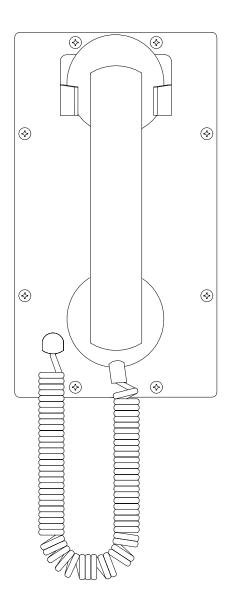


# Industrial Ringdown/Autodialer Telephone Model HR71

## Installation & Operation



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## **Table of Contents**

Package Contents	2
Overview	3
Features	3
Installing the HR71	5
Operating the HR71	5
Engineering Specifications	6
Warranty	7
Disclaimer	7
Warning	7
Service Telephone Number	7
Feedback	7
Guardian Product Return	
Table of Figures	
Figure 1 - Overall Dimensions	4

Figure 2 - Installation ......4

## **Package Contents**

- (1) HR71 Telephone
- (1) Installation & Operation Manual

#### Overview

## HR 71 Industrial Ringdown/Autodialer Telephone

The HR71 is a rugged industrial telephone designed to provide safe, reliable, point to point communication in harsh environments such as refineries, mills, plants, warehouses or areas with high humidity.

The HR71 Telephone may be supplied with an optional Auto Dialer or dialing may be programmed through a PABX. If an Auto Dialer is ordered with the HR71 refer to the manual for the Auto Dialer for instructions on programming and for compliances.

#### **Features**

#### **Enclosure**

16 AWG steel, zinc chromate plated and powder coated

## **Epoxy Resin Coating**

- encapsulates all parts on main circuit board
- resistant to corrosive agents (eg. H<sub>2</sub>S, SO<sub>2</sub>, and NH<sub>3</sub>), and high humidity

## Magnetic Reed Hook Switch

no moving parts

## Surge Arrestor

 prevents damage to the electronic circuits in the event of a high voltage spike on telephone line

## Noise Reducing Microphone

 allows a high level of intelligibility in locations with high background noise.

## Heavy Duty Handset Cord

withstands abusive use

## Hearing-Aid Compatibility

compatible with inductively coupled hearing-aid devices

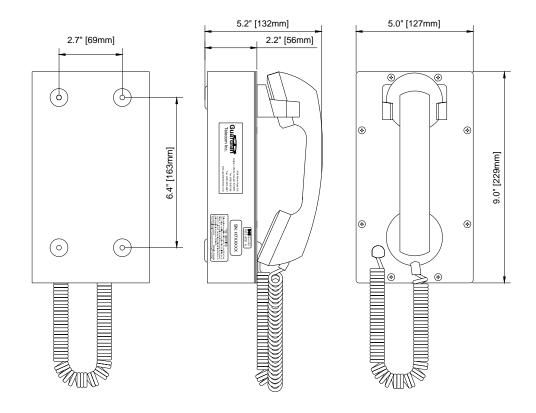


Figure 1 - Overall Dimensions

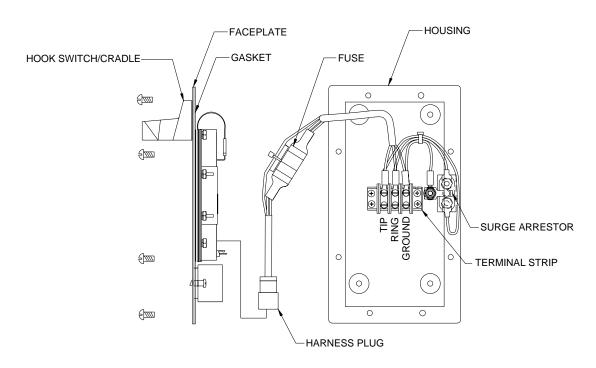


Figure 2 - Installation

## Installing the HR71

- Follow all appropriate electrical codes and use only approved electrical fittings for the installation.
- Choose a wall location that is free of obstructions and permits space for ½" NPT conduit runs.
- Ensure mounting can support 4 lbs. (1.8 kg) and any additional foreseeable load.
- Remove the eight (8) cover screws from the front of the unit and carefully remove the front cover assembly. NOTE that the handset and all electronics are attached to the front plate. The front cover may be separated from the back box by disconnecting the harness plugs.
- Attach the back box to the wall at the desired location using four (4) #8 screws. If weather resistance is important in your application select washers that will assist in sealing the mounting holes.
- Connect cable or conduit (1/2 inch trade size) to the entrance at the bottom
  of the unit.
- Connect an approved earth ground to the terminal block.
- Bring cable into the enclosure through the conduit entrance and attach individual wires from the exchange (Tip/Ring/Ground) to the connector (Tip & Ring are not polarity sensitive). If a conduit hub is used, ensure it is grounded to the ground stud.
- Apply power to the system.
- The HR71 Telephone may be supplied with an optional Auto Dialer or dialing may be configured by the PABX. If an Auto Dialer is ordered with the HR71, refer to the manual for the Auto Dialer for instructions on programming and for compliances.
- Test the unit by calling to and from another unit on the exchange.

## Operating the HR71

 The HR71 Ringdown/Autodialer phone is designed for automatic calling simply by removing the handset from the cradle. **See:** HR71 Drawing, Figure 1 - Overall Dimensions.

**See:** HR71 Drawing, Figure 1 - Overall Dimensions.

# Installation and Operation Model HR71

Engineering Spec	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	>80 dB				
FCC RINGER EQUIVALENCE	0.9B				
SET IMPEDANCE	600 OHMS NOMINAL				
MAXIMUM LOOP	15,000 FEET (4,600 METERS) OF 22 AWG COPPER				
ELECTRICAL REQUIREMENTS					
RINGER SENSITIVITY	40 – 100 V, 16 – 25 Hz				
LINE VOLTAGE	24 – 56 VDC				
LOOP CURRENT	20 - 120 мА				
CONNECTION METHOD	SURGE ARRESTOR / TERMINAL BLOCK				
ENVIRONMENTAL					
WEATHERPROOF	ENCLOSURE NEMA 3R				
TEMPERATURE	-40° то +50° С				
MECHANICAL					
HOOK SWITCH (CRADLE SWITCH) LIFE	>1 000 000 OPERATIONS				
BODY CONSTRUCTION	16 GAUGE STEEL, ZINC CHROMATE PLATED AND POWDER COATED				
DIMENSIONS	9 x 5 x 5.2 INCHES (229 x 127 x 132 MM)				
NET WEIGHT	4 LBS (1.82 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	7/8" DIAM. OPENING FOR OWNER SUPPLIED FITTING				
HARDWARE MATERIAL	STAINLESS STEEL				

## 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

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

This device may be opened and reassembled by qualified personnel only, for the purposes of installing the product and replacing fuses, following the instructions in the product manual.

High voltages may be present in this product when connected to telephone wiring.

## **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.

Guardian Telecom Inc. 7552 - 10th Street N.E. Calgary, Alberta, Canada T2E 8W1 Toll-free 1-800-363-8010 Ph. (403) 258-3100 Fax. (403) 253-4967 www.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. This can be done by completing a RMA form online at www.guardiantelecom.com, or by calling the service telephone number given in this manual.
- 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.

## **Guardian Telecom Inc.**

# Installation and Operation Model HR71

 Notes:
Model No.
Part No.
Serial No.
Date of Purchase



Guardian Telecom Inc. 7552 - 10th Street N.E. Calgary, Alberta, Canada T2E 8W1 Toll-free 1-800-363-8010 Ph. (403) 258-3100 Fax. (403) 253-4967 www.guardiantelecom.com

E-mail: sales@guardiantelecom.com

## Industrial Communications Worldwide