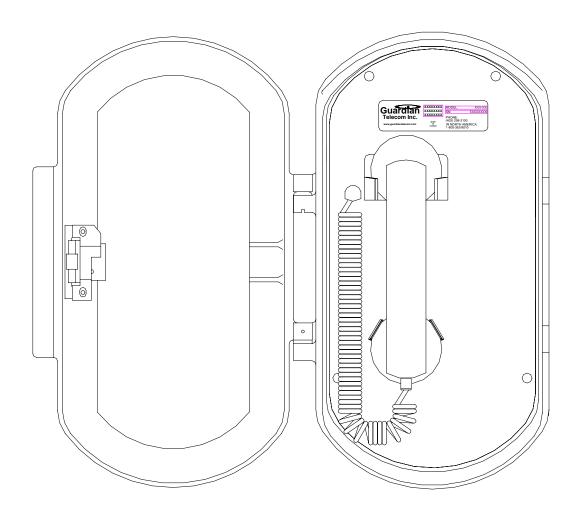


Heavy Duty Ringdown/Autodialer Weather Proof Telephone

Model SP71A

Installation & Operation



P005121 Rev. D 11/23/2004 11:59



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Package Contents

One (1) SP71A Telephone

One (1) Installation and Operation manual

Models and Options

- P5405 SP71A Ring-Down Telephone Assembly Non-Locking Door
- P5407 SP71A Ring-Down Telephone Assembly Non-Locking Door with Armored Handset Cord
- P5409 SP71A Ring-Down Telephone Assembly Locking Door
- P5411 SP71A Ring-Down Telephone Assembly Locking Door with Armored Handset Cord

Overview

SP71A Heavy Duty Ringdown Telephone

The SP71A Heavy Duty Telephone meets the special requirements of sites prone to abuse and inclement weather. The apparatus is housed in an aluminum enclosure with a locking or non-locking door. The unit resists moisture, dust and corrosive chemicals and is specifically designed to provide reliable service in outdoor environments.

The SP71A 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 SP71A refer to the manual for the Auto Dialer, for instructions on programming and for compliances

Features Enclosure cast aluminum housing weather and dust resistant durable Hammertone Grey powder coat paint locking or non-locking door nylon bushings provide smooth door operation Encapsulated Circuitry circuit boards are resistant to corrosive agents (e.g. H₂S, SO₂ and NH₃), and environments with 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 the telephone line Noise Reducing Microphone allows a high level of intelligibility in locations with high background noise Heavy Duty Handset Cord withstands excessive use (armored cord available) Handset

compatible with inductively coupled hearing-aid devices

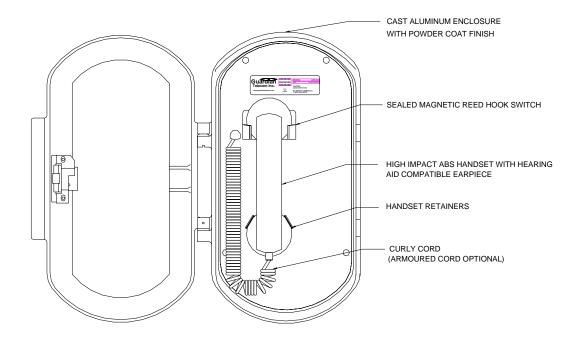


Figure 1 - SP71A Features

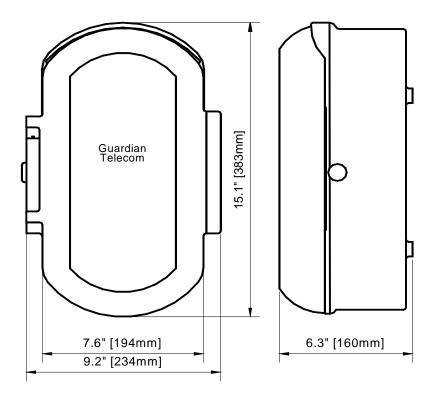


Figure 2 - SP71A Overall Dimensions

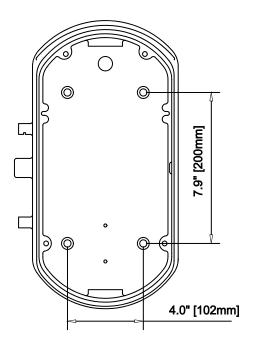


Figure 3 - Mounting

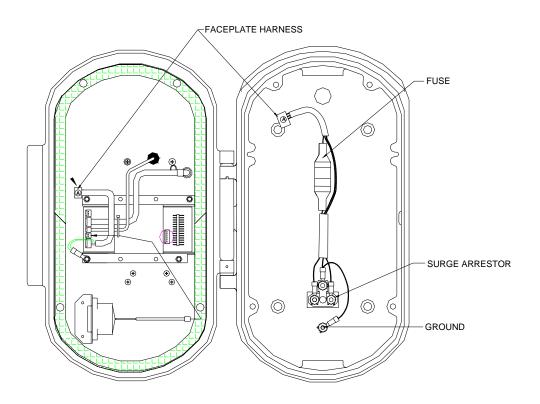


Figure 4 - Electrical Connections

Installing the SP71A Telephone

- 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 conduit or wire.
- Ensure mounting can support 11 lbs. (5 kg) and any additional foreseeable load.
- Ensure that none of the electrical connection circuits are live.
- Use the template provided to locate and drill holes for mounting screws.
- Open the door, remove the screws on the faceplate and remove the faceplate.
- Disconnect the faceplate harness.
- Secure the unit to the wall.
- Bring cable into the enclosure through the conduit entrance and attach individual wires from the exchange (Tip/Ring/Ground) and connect to the surge arrestor. If a conduit hub is used, ensure it is grounded to the ground stud.
- Reconnect the faceplate harness.
- Ensure all connections are secure.
- Replace the faceplate.
- The SP71A 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 SP71A refer to the manual for the Auto Dialer, for instructions on programming.
- Test the unit by calling from another unit on the exchange.

See: Government Certification.

See: Figure 3 - Mounting

See: Figure 3 - Mounting.

Note: Be careful when removing the faceplate. The circuit board is on the faceplate.

See: Figure 4 - Electrical Connections.

Field Repairs

Note: The only field repair permitted is the replacement of fuses. All other repairs or alterations must be carried out by Guardian Telecom or an Authorized Service Depot. See **Warranty and Disclaimer for details.**

See: Figure 4 - Electrical Connections

Engineering Specifications						
ELECTRICAL PERFORMANCE						
AUDIBLE FREQUENCY RANGE	300 – 3400 Hz					
TRANSMIT OBJECTIVE LOUDNESS RATING (TOLR)	-38 ⁺ /- 3 dB					
RECEIVE OBJECTIVE LOUDNESS RATING (ROLR)	50 ⁺ /- 3 dB					
SIDE TONE OBJECTIVE LOUDNESS RATING (SOLR)	11 ⁺ /- 4 dB					
RINGER OUTPUT	>65 dB					
FCC RINGER EQUIVALENCE (REN)	0.8 A					
SET IMPEDANCE	600 OHMS NOMINAL					
MAXIMUM LOOP	15,000 FEET (4,600M) 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					
MICROPHONE	NOISE REDUCING ELECTRET					
ENVIRONMENTAL						
ENCLOSURE	WEATHERPROOF AND CORROSION RESISTANT					
DUST TIGHT	ENCLOSURE GASKET					
Temperature	-40° TO +60° C (-40° TO +140° F)					
HUMIDITY	0 – 95% RH					
MECHANICAL						
HOOK SWITCH (CRADLE SWITCH) LIFE	>1,000,000 OPERATIONS					
BODY CONSTRUCTION	CAST ALUMINUM - POWDER COATED					
FACEPLATE	STEEL – ZINC DICHROMATE PLATED AND POWDER COATED					
DIMENSIONS	234 X 383 X 160 мм (9.2 X 15.1 X 6.3")					
NET WEIGHT	11 LBS./5 KG					
HANDSET CORD	ALCRYN COLD TEMPERATURE (ARMORED OPTIONAL)					
STANDARD MOUNTING	VERTICAL WALL					
OPTIONAL FITTING	½" NPT CONDUIT HUB					
HANDSET MATERIAL	HIGH IMPACT ABS					
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 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

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 SP71A

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

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