

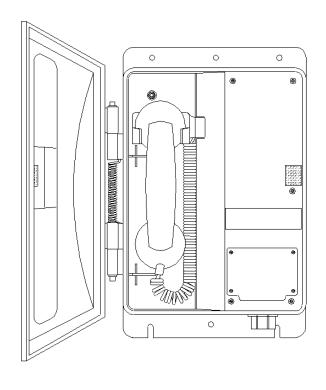


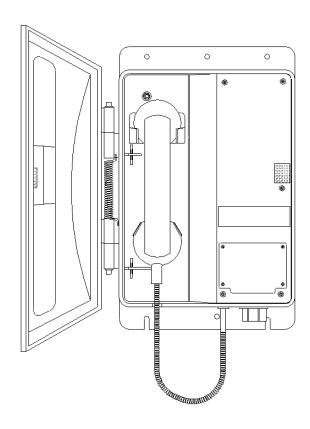
CONNECTED. PROTECTED.

Weather Resistant Hazardous Area Ringdown Telephones

WRR-H Series

Installation & Operation





WRR-11-H

WRR-41-H

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Package Contents

- (1) WRR-H Telephone
- (1) Installation & Operation Manual

Overview

WRR-H Weather Resistant Hazardous Area Ringdown Telephones

WRR-H telephones are designed to provide safe, reliable communication in hazardous areas that are prone to high humidity, chemical vapors, dust and physical abuse. Several variations and options are available to suit the end user's requirements.

Dialing the WRR-H is programmed through the PABX.

Standard Features

Enclosure

- weather tight, rugged Valox[®]
- spring loaded hinged door
- stainless steel mounting plate

Faceplate

powder coated steel with wiring access to surge arrestor

Encapsulated Circuitry

 circuit boards are resistant to corrosive agents (e.g. H₂S, SO₂, and NH₃), and environments with high humidity

Surge Arrestor

 protects the user in the event of a high voltage spike on the telephone line

Fuse

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

Magnetic Reed Hook Switch

no moving parts

4' Heavy Duty Handset Cord (WRR-H-11 only)

withstands severe use

Anchored Armored Handset Cord (WRR-H-41 only)

vandal resistant

Hearing-Aid Compatible (HAC) Receiver

· compatible with inductively coupled hearing-aid devices

Receiver Volume Control

Switch in handset provides 13.5dB of range

Features (Specific Models)

P6681 Model WRR-H-11 Weather Resistant Hazardous Area Ringdown Telephone

• 4' Curly Cord

P6682 Model WRR-H-41 Weather Resistant Hazardous Area Ringdown Telephone

- 22" Armored Handset Cord
- Handset Retainer Clips

Options Available			
20' Heavy Duty Curly Cord	(20C)	(Not available with WRR-H-41)	
Noise Canceling Microphone	(NC)		
Grey Enclosure	(GR)		

Accessories

- P7224 Potted ring detect relay
- P7226 Hazardous Area ring detect relay
- P7227 Potted off-hook detect relay
- P7233 Hazardous Area 48V off-hook detect relay
- PXXXX External Loud Ringers

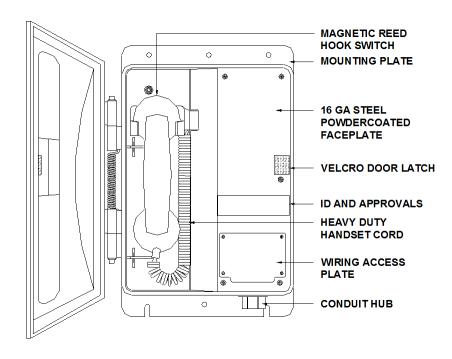


Figure 1 - WRR-11-H Features

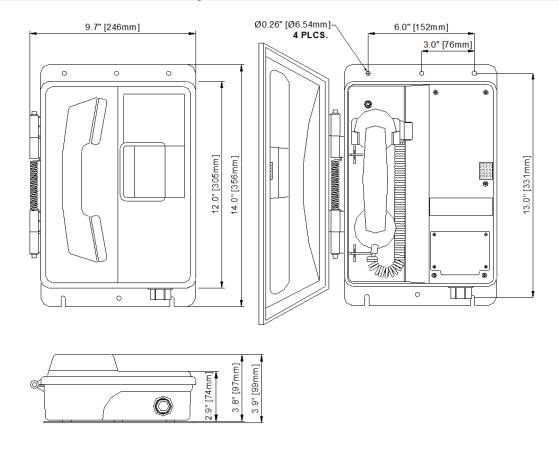


Figure 2 - WRR-11-H Overall Dimensions

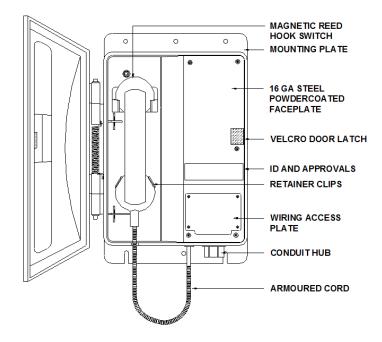


Figure 3 - WRR-41-H Features

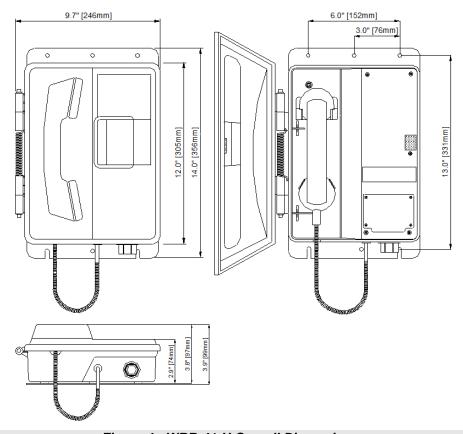
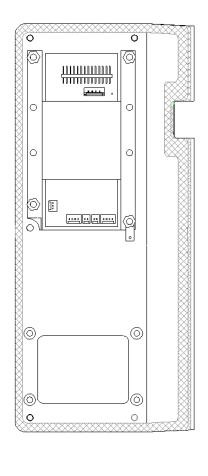


Figure 4 - WRR-41-H Overall Dimensions



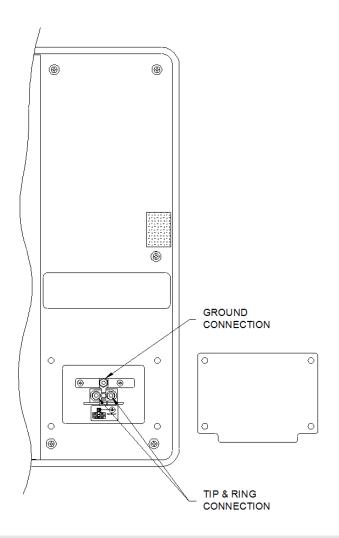


Figure 5 - Tip & Ring Connection

Installing the WRR-H

- 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 wiring.
- Ensure mounting can support 5.5 lbs (2.5 kg) plus any additional, foreseeable load.
- Ensure that none of the electrical connection circuits are live.

Mounting

- Use the template to locate and drill holes for mounting screws.
- Secure the unit to the wall.

Wiring the WRR-H to the Telephone System

- Remove the wiring access cover plate.
- Bring cable into the enclosure through the conduit entrance and attach individual wires from the exchange – Tip/Ring/Ground – to the surge arrestor (Tip & Ring are not polarity sensitive).
- Reinstall the wiring access cover plate.

Final Check

- Check the set visually for loose screws and trapped wires. Check that the handset hangs freely in the cradle and that the handset cord is not trapped by the door.
- Check that the faceplate is snug to its gasket, paying particular attention to the area around the cradle. Check that the door closes flush to the housing.
- Dialing of the WRR-H Telephone is programmed through a PABX.
- Test the unit by calling to and from another unit on the exchange.

See: Figure 2 - WRR-11-H Overall Dimensions & Figure 4 - WRR-41-H Overall Dimensions

See: Figure 5 - Tip & Ring Connection

Operating the WRR-H Series

Lift the handset and the telephone will dial automatically.

When the call is completed replace the handset in the cradle.

Field Repairs & Adjustments

Field repairs may only be carried out by qualified technicians using OEM parts. Substitution of parts voids warranty and may pose a hazard to users of the equipment.

- Disconnect the telephone from Tip and Ring power supplied by the PABX or central office before attempting repairs.
- Loosen the five captive screws in the faceplate and swing the faceplate to the left. If the set is on a vertical surface the faceplate will stay open like a book in this position. Take care not to disturb the internal wiring.
- · Perform the necessary repairs or adjustments.
- Carefully replace the front plate and install all five screws. Do not over tighten the cover screws; there is a flexible gasket between the cover and the body. Excessive tightening of the screws deforms the gasket and reduces the weather resistance of the set.

Fuse Replacement

 Remove the old fuse by pushing in the end cap of the fuse holder and turning counterclockwise to open. Insert a new 0.25 amp, 250Volt, 3AG fast blow fuse and close the fuse holder.

WARNING!

- Replace only with a 0.25 amp 250V 3AG fast blow fuse. Failure to do so will void the warranty.
- If, on reconnecting power, the fuse fails, check the telephone system wiring. The fuse protects the Tip and Ring line from the telephone system.
 It is usually powered at 48 volts DC and must not be connected to 120 volts AC.

See: Replacement Parts

See: Figure 6 - Fuse Replacement

Note: Ensure that connections are secure before replacing faceplate.

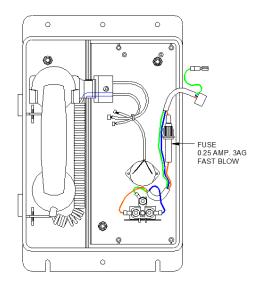


Figure 6 - Fuse Replacement

Product Specifications	
Electrical Performance	
AUDIBLE RANGE FREQUENCY RESPONSE	300 – 3400 Hz
TRANSMIT OBJECTIVE LOUDNESS RATING (TOLR)	-41 +/- 4 dB
RECEIVE OBJECTIVE LOUDNESS RATING (ROLR)	TYPICAL 50 +/- 3 dB
SIDE TONE OBJECTIVE LOUDNESS RATING (SOLR)	TYPICAL 11 +/- 4 dB
RINGER OUTPUT	>80 dB
FCC RINGER EQUIVALENCE	0.8A
SET IMPEDANCE	600 OHMS NOMINAL
MAXIMUM LOOP	15,000 FT (4,600 M) 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
Fuse	1/4 AMP 3AG FAST BLOW
Environmental	
WEATHERPROOF	ENCLOSURE NEMA 3R
Temperature	-40° TO +140° F (-40° TO +60° C)
Humidity	0 то 95% RH
Dustproof	FULLY GASKETTED ENCLOSURE
CORROSION RESISTANT	MIL-STD-810E SALT FOG
Mechanical	
HOOK SWITCH (CRADLE SWITCH) LIFE	>1 000 000 OPERATIONS
BODY CONSTRUCTION	GE VALOX 357 ^R ENGINEERING POLYMER
DIMENSIONS (H x W x D)	14 x 9.7 x 3.9 INCHES (356 x 246 x 99 MM)
NET WEIGHT	5.5 LBS (2.5 KG)
Handset Material	HIGH IMPACT ABS
MICROPHONE	Noise Reducing Electret
OPTIONAL MICROPHONE	Noise Canceling Dynamic
RECEIVER	HEARING AID COMPATIBLE
STANDARD MOUNTING	VERTICAL WALL
WIRING ACCESS	1/2"NPT CONDUIT HUB
Hardware Material	STAINLESS STEEL

Guardian Telecom Inc.

Compliance	
INDUSTRY CANADA	1012 6721 A
FCC	HQHCAN-22517-TE-E
CSA (C & US)	1545708 CLASS I, DIV. 2, GROUPS A, B, C & D CLASS II DIV 1 & 2, GROUPS E, F & G
WEATHERPROOF	Enclosure NEMA 3R
ENVIRONMENTAL SURVIVABILITY	MIL-STD-810E

Replacement Parts			
Part No.	Description		
P005778	Faceplate WRR-H (All Models)		
P005479	Handset Shell – C/W 22" Armored Cord & Volume Control		
P005477	Handset Shell C/W 4' Coil Cord & Volume Control		
P005961	Handset Cradle – C/W Reed Switch		
P004371	Handset Retainer – WRR-41-H Only		
P000028	Microphone Cartridge – Noise Reducing		
P004538	Microphone Cartridge – Noise Canceling		
P002080	Receiver Cartridge		
P005391	Handset Assembly – C/W 4' Coil Cord For WRR-11-H		
P005699	Handset Assembly – C/W 22" Armored Cord For WRR-41-H		
P005582	Telephone Circuit Board		
P002782	Ringer – Floyd Bell BR-3-39		
P005917	Reed Switch		
P002992	Surge Arrestor – TII 126L1		
P002991	Fuse – Glass 0.25 Amp 250V		
P000126	Housing		
P003045	Backplate		
P002988	Door C/W Velcro Latch		
P001706	Hinge Pin – 8.390 Nylon		
P001488	Door Spring		
P002995	Hinge Pin Retaining Ring		

Government Certification

Attached to the telephone are labels for *Industry Canada* and the *United States Federal Communications Commission*. These identify equipment certifications indicating the 60 and 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.

Load Number (LN)

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.

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.

FCC Rules and Ringer Equivalence Number

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.

Service changes and Limitations

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 cannot 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

This device may be opened and reassembled by qualified personnel only, for the purposes of installing the product, making adjustments and replacing components, 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. 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.

No	otes:

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





Guardian Telecom Inc. Toll-free 1-800-363-8010 Phone (403) 258-3100 Fax. (403) 253-4967

www.guardiantelecom.com

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