Page/Talk Outdoor Housing

Installation & Operation

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Package Contents

One (1) Page/Talk Outdoor Enclosure
One (1) Installation & Operation Manual

Options

VR-WTE Vandal Resistant Screws With Driver Bit For Escutcheon Plate
LCK-WTE Locking Door

Overview

Page/Talk Outdoor Housings

Guardian's Page/Talk Systems provide reliable and easy to use paging and communication within industrial environments such as plants, mills and factories. Individuals can be paged from any station and two or more persons can communicate on any available line.

The Outdoor Housings described in this manual are designed for use in harsh, industrial environments. Housings intended for handset or amplifier stations are identical and can be used for single talk line or five talk line configurations.

Features

Enclosure

- Thermoplastic resin body construction

- weatherproof and corrosion resistant

Cable Entrances

- drill and tap to suit

Connectors

- removable screw and plug Combicon connectors allow for ease of installation, simply screw wires into plug and reinsert plug into PCB socket

Crossbar

- Removable for ease of access

Page/Talk Outdoor Housings Models

Part No.	Description
P5524	Single line with ambient noise sensing microphone
P5525	Single line
P5526	Five line with ambient noise sensing microphone
P5527	Five line

Note: Single line housings can be converted to five line by simply removing a jumper and five line housings can be converted to single line by installing a jumper - P/N P005468/01.

STAINLESS STEEL FACEPLATE BRACKETS

SPRING LOADED DOOR

CONNECTOR BOARD

REMOVABLE CROSSBAR

SPECIFICATION APPROVAL
AND WARNING LABEL WITH
MODEL AND SERIAL NUMBER
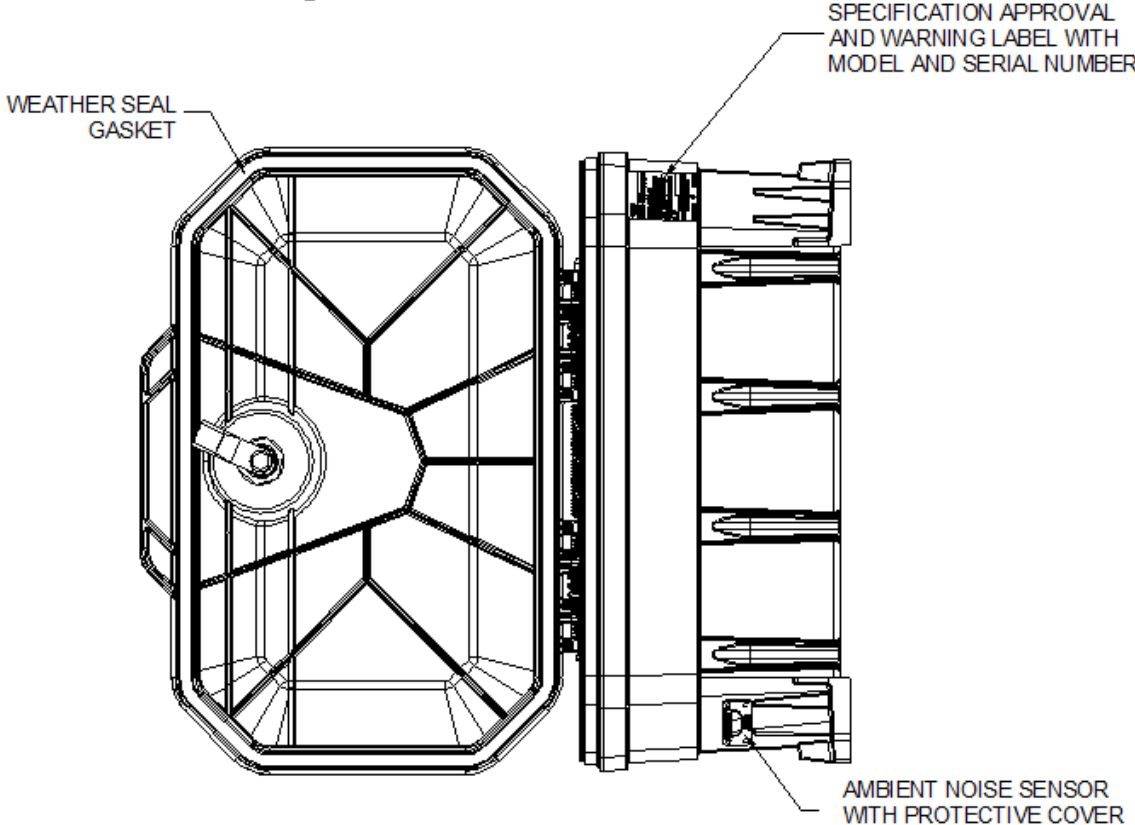
WEATHER SEAL
GASKET

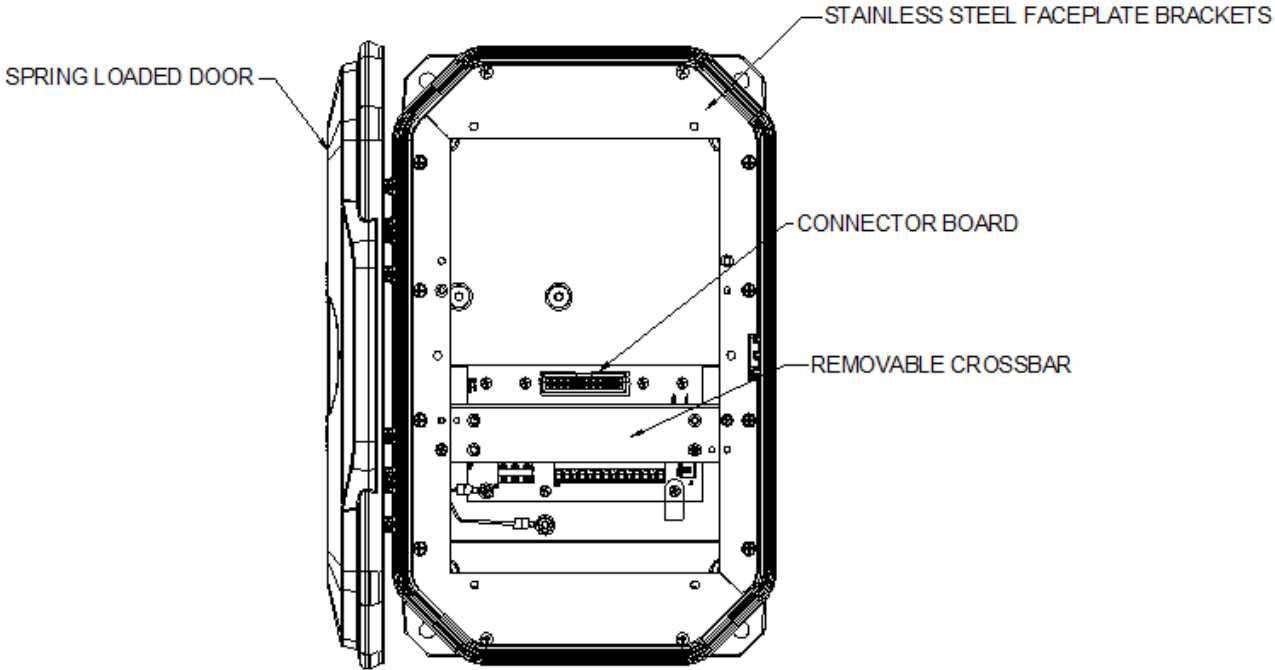AMBIENT NOISE SENSOR
WITH PROTECTIVE COVER
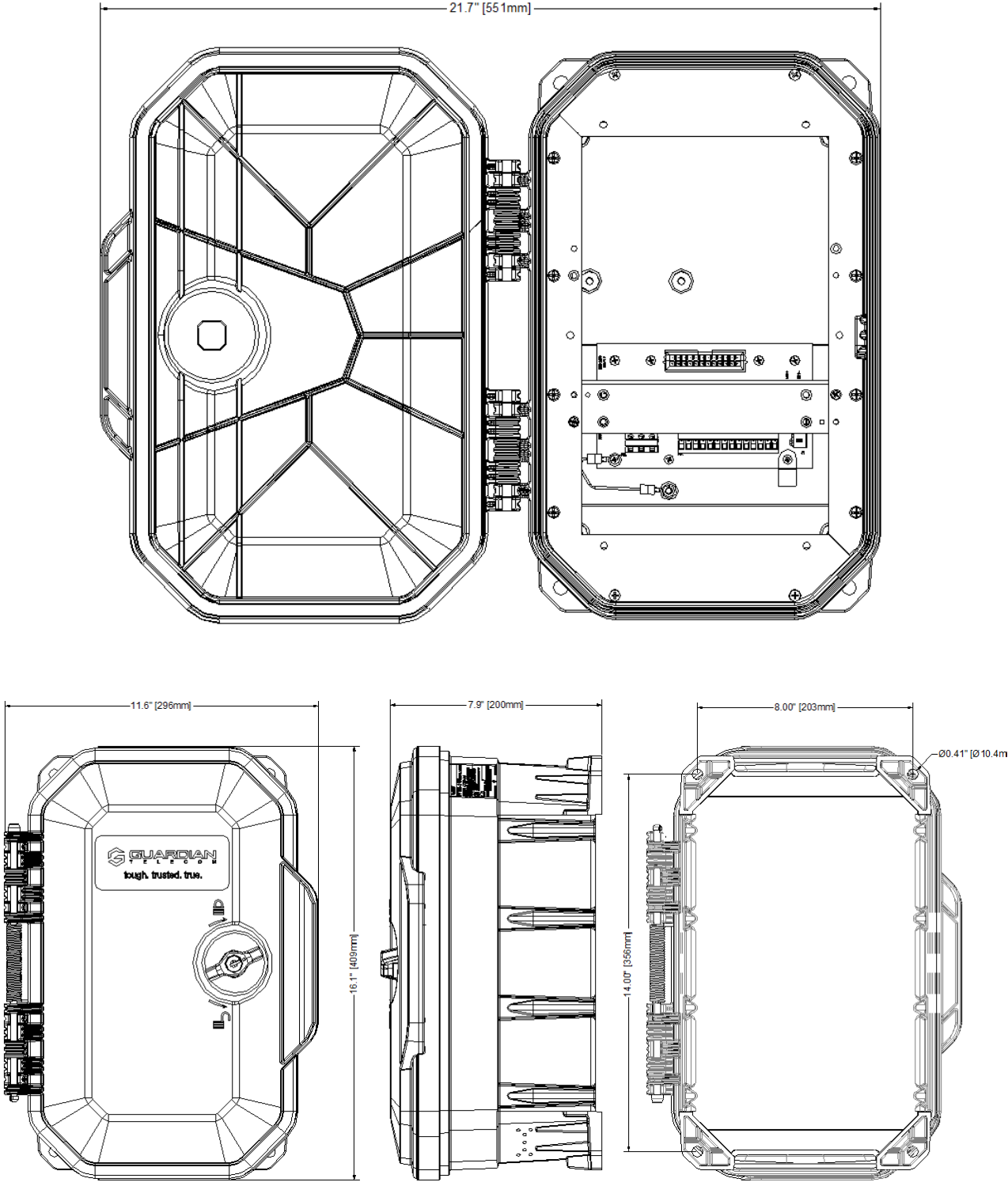
Figure 1 - Features
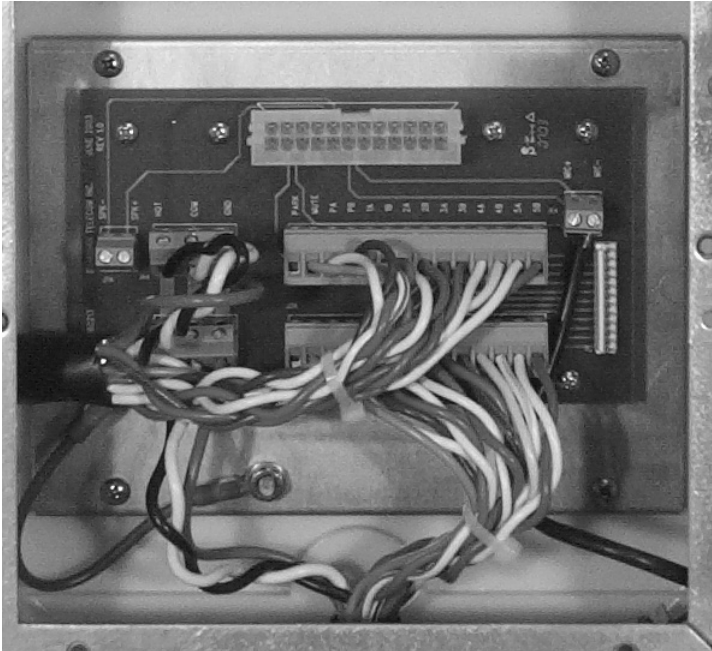
Figure 2 - Dimensions

Figure 3 - Wiring Photo

Figure 4 - Installation Photo
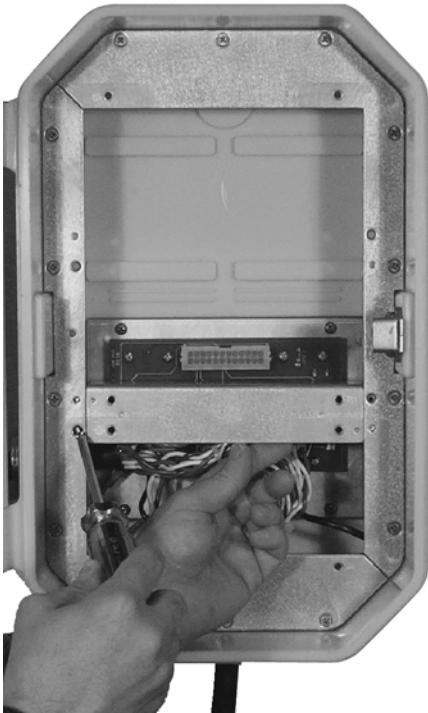
Figure 5 - Crossbar Assembly Photo
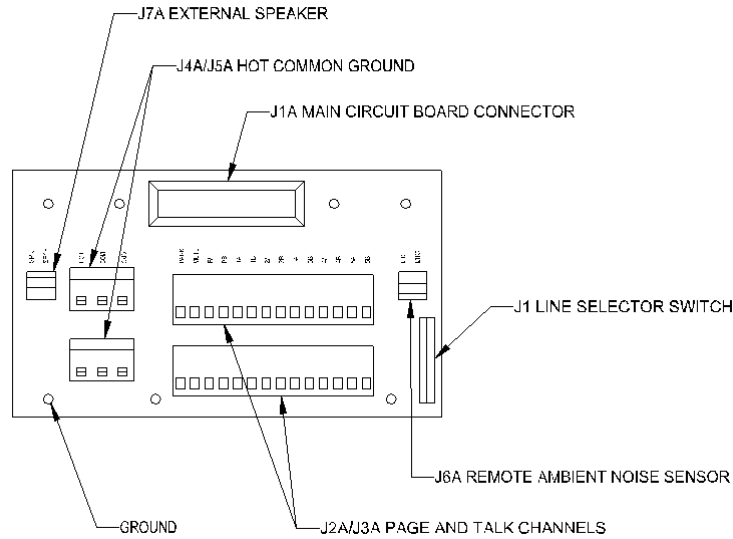
Figure 6 - Wiring

Assignment	Designation	Description	Jacket Color	Stripe Color	Wire Gauge
System Power	J4A/J5A	HOT	Black		14 AWG
	J4A/J5A	COM	White		14 AWG
	J4A/J5A	GND	Green		14 AWG
Ambient Noise Microphone	J6A	MIC +	n/a	n/a	n/a
	J6A	MIC -	n/a	n/a	n/a
Speaker	J7A	SPK +	n/a	n/a	n/a
	J7A	SPK -	n/a	n/a	n/a
Page Line	J2A/J3A	PA Page Line	Blue	Red	18 AWG
	J2A/J3A	PB "	Red	Blue	"
Channel	J2A/J3A	1A Channel 1	Red		18 AWG
	J2A/J3A	1B "	L. Brown	Red	"
	J2A/J3A	2A Channel 2	Violet		18 AWG
	J2A/J3A	2B "	L. Brown	Violet	"
	J2A/J3A	3A Channel 3	Blue		18 AWG
	J2A/J3A	3B "	L. Brown	Blue	"
	J2A/J3A	4A Channel 4	Brown		18 AWG
	J2A/J3A	4B "	L. Brown	Brown	"
	J2A/J3A	5A Channel 5	Yellow		18 AWG
	J2A/J3A	5B "	L. Brown	Yellow	"
Group Muting of Loudspeakers	J2A/J3A	Mute	Orange		18 AWG
	J2A/J3A	Park			
Spare Conductor (Special Order)	n/a	Extra	Red		12 AWG

Note:
Channels 2 to 5 connections remain empty for single Talk Line hookup.

If this station is in a Group Muting series, but is not to be muted when paging calls are made from other stations in the group, connect the wires assigned to this function to the Park terminals.

Figure 7 - Electrical Connections

Installing the Outdoor Housing	
<u>WARNING</u> - **high voltages are present in this equipment when it is connected to the power source.**	
• Follow all appropriate electrical codes and use only approved electrical fittings for the installation.	
• For cable entrances drill and tap to suit in the recesses on top, bottom or lower portion of sides.	
• Install suitable fittings in the cable entrances.	
• Choose a wall location that is free of obstructions and permits space for conduit or wire.	*See: Figure 2 - Dimensions*
• Ensure mounting can support 20 lbs. / 9 kg (with module installed), and any additional foreseeable load.	
• Remove the crossbar.	
• Use the template provided or the housing itself to locate and drill holes for mounting screws and secure the unit to the wall.	
• Ensure that none of the electrical connection circuits are live.	
• Bring cable(s) into the enclosure through the conduit entrance(s) and attach individual wires to the Combicon connector(s). Attach the wires from the first or only cable to the bottom connector. Make Talk channel connections to terminals 1A and 1B for a single line station.	*See: Figure 6 - Wiring and Figure 7 - Electrical Connections*
• Plug the connector(s) into the receptacle(s) on the interface board.	
• If the station is part of a Group Muting series connect the wires assigned to this function to either the Mute or Park terminal on the connector.	*See: Group Muting*
• Connect loudspeaker wiring if provided.	*See: Module manual for suggested speaker configurations.*
• Install the crossbar.	*See: Figure 5 - Crossbar Assembly Photo*
• Ensure that all connections are secure.	

Wire Gauge	Area (mm²)	4 Ohm Load	8 Ohm Load	16 Ohm Load
18 AWG	1.2	40 ft. (12 m)	80 ft. (25m)	160 ft. (50 m)
16 AWG	1.5	60 ft. (18 m)	120 ft. (36 m)	240 ft. (72 m)
14 AWG	1.8	100 ft. (30 m)	200 ft. (60 m)	400 ft. (120 m)

Note: Performance may vary depending on a number of factors such as the type and thickness of insulation on the conductors and whether or not twisted pairs are used.

Figure 8 - Maximum Speaker Cable Runs to Limit Volume Loss to 1dB

Group Muting

In order to avoid acoustical feedback, it may be desirable in certain circumstances to mute speakers associated with adjoining stations when making a paging call. This can be accomplished by interconnecting the "Group Mute" terminals of each station in the group, and setting the speaker mute jumpers on the circuit boards to the appropriate position.

Note: Putting the mute jumper of a station in the on position will mute the associated speaker when the page button is pressed. If the jumper is in the off position the speaker will not be muted when the page button is pressed.

If group muting is used the associated speaker of any station in the group with its mute jumper in the on position will be muted when a paging call is made from any station in the group, including the associated station. Any speaker associated with a station with its mute jumper in the off position will not be muted when a paging call is made from any station in the group, including the associated station.

If it is desired to bypass a station in a group, connect the group paging wires to the PARK terminals of that station.

See: Figure 7 - Electrical Connections

Note: Paging calls originating from stations outside the group will be heard regardless of the position of the Mute jumper.

EXAMPLE OF GROUP MUTING

STATION "A" STATION "B" STATION "C"

MUTE JUMPER ON OFF

MUTE

PARK

GROUP MUTE
SIGNAL CONDUCTORS

If the Group Mute Signal Conductors are attached to the Park terminals of station "B" that station will be bypassed and paging from stations "A" or "C" will have no effect on the output of the loudspeaker associated with Station "B".

If the Group Mute Signal Conductors are attached to the Mute terminals of station "B" the condition of the loudspeaker associated with that station will depend on the setting of the Mute On/Off jumper. If the jumper is in the ON position the loudspeaker will be muted if a paging call is made from any of the three stations. If the jumper is in the OFF position the paging call will not be muted if a paging call is made from any of the three stations.

Paging calls from outside the Group will always be heard, regardless of the position of the mute jumper.

Specifications	
ELECTRICAL REQUIREMENTS	
INPUT VOLTAGE	20 - 26 / 90-140 / 200-260 VAC, 24 - 30VDC
AC INPUT FREQUENCY	50/60Hz
INPUT VOLTAGE/CURRENT/FUSE	120VAC/0.1AMP/0.5A 20MM CERAMIC FAST BLOW
	230VAC/0.05AMP/0.25A 20MM CERAMIC FAST BLOW
	24VAC/0.5AMP/0.75A 20MM CERAMIC FAST BLOW
	24VDC/0.5AMP/0.75A 20MM CERAMIC FAST BLOW
ENVIRONMENTAL	
WEATHER TIGHT	ENCLOSURE TYPE 4X AND IP-66
MECHANICAL	
CONSTRUCTION	THERMOPLASTIC RESIN
DIMENSIONS (H X W X D)	16.1 x 11.6 x 7.9 INCHES (409 x 296 x 200 MM)
NET WEIGHT (HOUSING ONLY)	6.6 LBS/3KG
SHIPPING DIMENSIONS	20 x 15 x 12 INCHES (508 x 381 x 305 MM)
SHIPPING WEIGHT	10 LBS/4.5KG
COMPLIANCE	
CSA (C & US)	CLASS I, DIVISION 2 GROUPS A, B, C & D
	CLASS II GROUPS E, F & G
	T6
MODELS WITHOUT HEADSET CONNECTORS ARE APPROVED FOR USE IN HAZARDOUS AREAS AS DENOTED BY THE PRODUCT LABEL OR PRODUCT CERTIFICATE OF COMPLIANCE	

Replacement Parts

Part No.	Description
P006442	Housing – Thermoplastic Resin
P006441	Door – WTE-100
P006549	Gasket – Door
P006460	Latch – Non-locking
P006461	Latch – Locking
P006462	Gasket – Latch
P006439	Spring – Water Tight Door SS
P006440	Pin – Door Hinge
P005838	Microphone – Ambient Noise Sensing
P005929	Bracket – Faceplate Mounting Bar
P006519	Escutcheon – Faceplate Mounting
P006499	Gasket – Escutcheon
P005963	Connector – PCBA
P006003	Gasket – Microphone/Speaker Installation

Warranty

Guardian Telecom warrants your product to be free of defects in material and workmanship for a period of three years. 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

High voltages may be present in this product, ensure that power is removed before installing, performing maintenance or making repairs.

Service Telephone Number

1-800-363-8010 Toll Free in North America

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 (7:30AM-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, A Division of Circa Enterprises 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.
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 an RMA form online at https://www.guardiantelecom.com/support/rma/, 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.

Page/Talk System Models and Options

Indoor Handset Stations PTI-1 & PTI-5

P5550   Ambient noise sensor, single line
P5551   Ambient noise sensor, five line
P5552   Ambient noise sensor, headset connector, single line
P5553   Ambient noise sensor, headset connector, five line
P5554   Single line
P5555   Five line
P5556   Headset connector, single line
P5557   Headset connector, five line

Outdoor Handset Stations PTO-1 & PTO-5

P5568   Ambient noise sensor, single line
P5576   Ambient noise sensor, five line
P5577   Ambient noise sensor, headset connector, single line
P5528   Ambient noise sensor, headset connector, five line
P5569   Single line
P5575   Five line
P5578   Headset connector, single line
P5529   Headset connector, five line

Handset Explosion Proof Stn. EXP-1 & EXP-5

P5930   Ambient noise sensor, single line
P5935   Ambient noise sensor, five line

Indoor Speaker Amplifier Stations PSA-I

P5570   Ambient noise sensor
P5571   Speaker amplifier

Outdoor Speaker Amplifier Stations PSA-O

P5574   Ambient noise sensor
P5579   Speaker amplifier

P5982   **Explosion Proof Amplifier Stn. EXP-A**

Desk Set Amplifiers PDA

P5580   Ambient noise sensor
P5581   Speaker amplifier

Desk Set Stations (Complete) PTD & PDA

P5590   Ambient noise sensor, amplifier and single line desk set
P5591   Ambient noise sensor, amplifier and five line desk set
P5592   Amplifier and single line desk set
P5593   Amplifier and five line desk set

P5940   **Telephone Interface PTTI**

P5980   **Line Balance Assembly PTL**

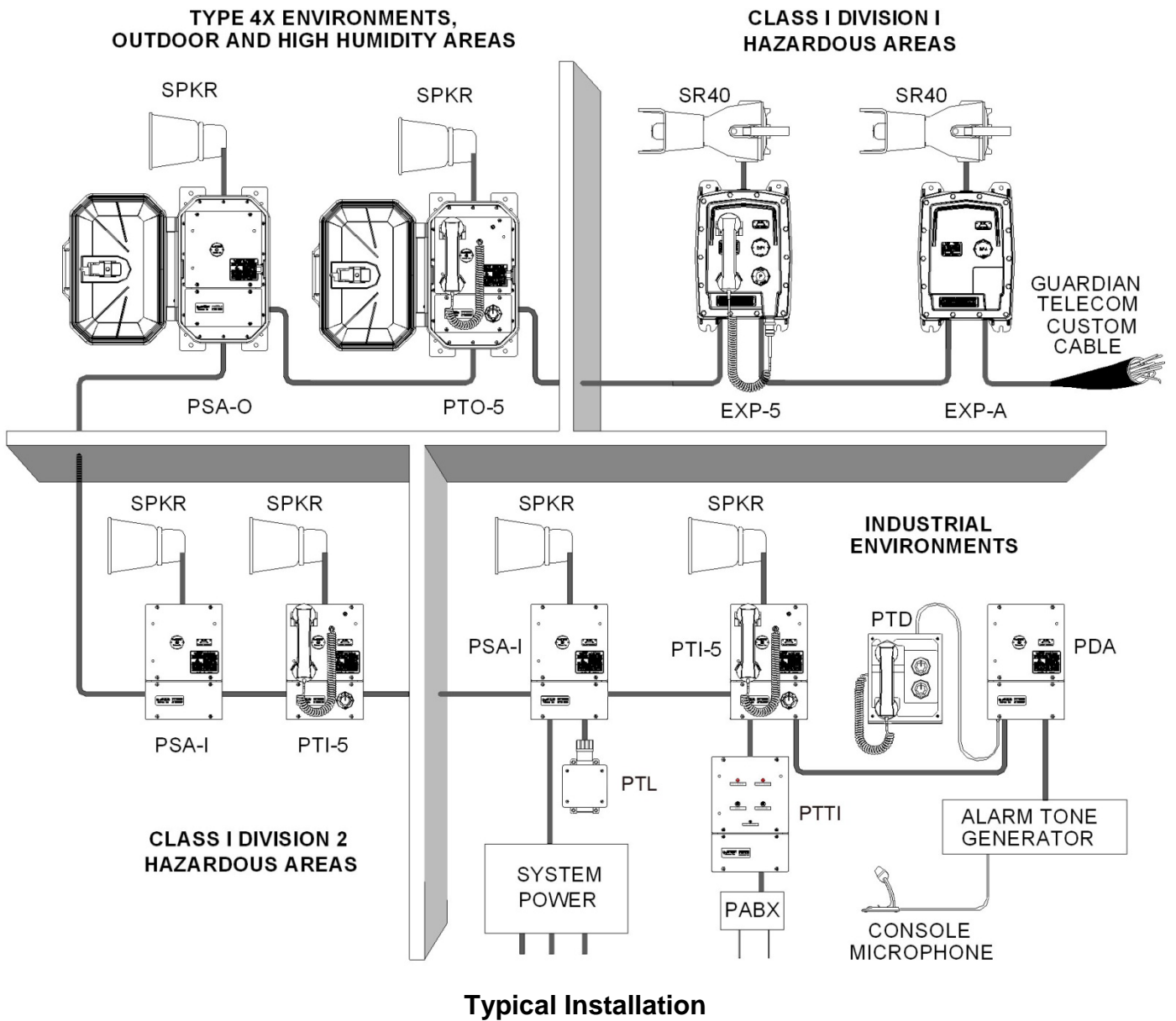### Alarm Tone Generator AG-17

P5960   With Relay
P5970   Without Relay

Acoustic Booths

P9010   AB100 Aluminum or Steel full size
P9035   AB1000 Glass Reinforced Plastic hood
P9029   AB2000 Glass Reinforced Plastic full size

Cable

P006183   2 Conductor 18AWG Industrial Armored Speaker Cable
P006184   2 Conductor 18AWG Industrial Standard Speaker Cable
P006217   4 Conductor 18AWG Industrial Armored Speaker Cable
P006216   4 Conductor 18AWG Industrial Standard Speaker Cable
P005863   Heavy Duty 8 Conductor Armored Cable (Single Line Page/Talk)
P005916   Standard Duty 8 Conductor Cable (Single Line Page/Talk)
P005366   Heavy Duty 16 Conductor Armored Cable (Multi Line Page/Talk)
P005219   Standard Duty 16 Conductor Cable (Multi Line Page/Talk)
P006218   Heavy Duty 17 Conductor Armored Cable (Multi Line Page/Talk)

Loudspeakers

P7247   SR40 Explosion Proof (Class I, Div. 1) Metal Horn Speaker
GB406   8 Watt Indoor Plastic Wall Speaker
GCW4T   8 Watt Indoor Cabinet Speaker
GBL650   15 Watt Indoor Plastic Ceiling Speaker
GB640   20 Watt Indoor Metal Ceiling Speaker
GCAR6   10 Watt Metal Surface Mount Speaker
GHP15   15 Watt Outdoor Plastic Horn Speaker
GHS15   15 Watt Outdoor Metal Horn Speaker
GHS15IIN   15 Watt Hazardous Area (Zone 2) Metal Horn Speaker
GHP20S   20 Watt Hazardous Area (Zone 2) Plastic Horn Speaker
GBA56EExeN   6 Watt Hazardous Area (Zone 1) Indoor Metal Ceiling Speaker
GCAPEEX6   6 Watt Hazardous Area (Zone 1) Metal Surface Mount Speaker
GHS15EExmN   15 Watt Hazardous Area (Zone 1) Metal Horn Speaker
GHS15ExdFM   15 Watt Hazardous Area (Class I, Div. 1) Metal Horn Speaker
AM15XD2   15 Watt Hazardous Area Speaker (Class I, Div. 2) Metal Horn Speaker

**TYPE 4X ENVIRONMENTS,
OUTDOOR AND HIGH HUMIDITY AREAS**

**CLASS I DIVISION I
HAZARDOUS AREAS**

SPKR

SPKR

SR40

SR40

GUARDIAN
TELECOM
CUSTOM
CABLE

PSA-O

PTO-5

EXP-5

EXP-A

SPKR

SPKR

SPKR

SPKR

**INDUSTRIAL
ENVIRONMENTS**

PSA-I

PTI-5

PTD

PDA

PSA-I

PTI-5

PTL

PTTI

ALARM TONE
GENERATOR

**CLASS I DIVISION 2
HAZARDOUS AREAS**

SYSTEM
POWER

PABX

CONSOLE
MICROPHONE

Typical Installation

Cleaning Tips for Guardian Telephones

Guardian Telephones may occasionally need to be cleaned to maintain appearance. Generally, wiping the surface with a clean, water dampened cloth will remove most films or residues. If the soiling is too stubborn for plain water, a mild detergent solution may be used. Be sure to wipe away any detergent residue with a plain water dampened cloth. The Telephone may be cleaned with any general-purpose household glass and surface type cleaner. Do not spray the telephone directly! Spray the cleaner on a soft cloth then wipe the surface. Pre-treated cloths such as those used for eyeglasses or cameras may be used to clean the Telephone. Premoistened towelettes may also be used, however, avoid those containing lanolin or aloe as they will leave a slippery residue. The handset and surface of the telephone may be cleaned with disinfectants used for general cleaning in a medical environment. Isopropyl alcohol may be used applied with a cloth. Avoid using alcohol on silicon based keypads, since doing so may significantly degrade legibility.

- Do not use furniture polishes, waxes or plasticizer-based cleaner (Armor All etc.)
- Do not use lanolin, aloe, glycerin or other skin care type products.
- Do not apply any solvent such as acetone, mineral spirits etc.
- Do not directly spray or immerse the handset.

Storage

General Storage (All situations):
- Note any stacking limits or warnings on packaging (if any).
- Do not store in temperatures over +80C.
- Store in original packaging if possible until needed.

Long Term Storage (> 6 Months):
- If area is air conditioned and not subject to high changes in humidity, continue to store in original packaging.
- If wide humidity shifts are expected, then use these steps:
  - Remove product from packaging (including plastic bags) and store on shelf in open air.
  - If area is subject to a high degree of dust, to help maintain cosmetic appearance you can cover with cloth (Do not cover with plastic or materials that will trap moisture) or clean periodically.
  - Do not store out of packaging long term where they are exposed to sunlight. Long term exposure to UV may cause fading on plastic parts.

Notes:

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

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Tough. Trusted. True.