



G U A R D I A N T E L E C O M

Product and Services Guide

Page/Talk — Explosion Proof & Class 1 Division II Stations, System Cable, System Components

Where simplicity and reliability are required, Guardian Telecom's Page/Talk intercom products and components can stand the test of time and punishment from harsh and explosive environments.

Use Page/Talk to combine plant-wide or zone selected paging capability with single or five line intercom communication. Unrestricted conference call capability and unlimited system expansion without complicated re-configuration

makes Page/Talk effective for end users to fulfill many requirements in one simple but effective communication system.

Guardian Page/Talk products have the ability to interface with other phone or emergency systems for increased compatibility. Guardian Page/Talk products and components can be also be used with other current system manufactures for better cost-effectiveness.

**Guardian
Telecom**

CONNECTED. PROTECTED.

SECTIONS

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Visit industrial sites around the world and you can find telephones and communication systems designed, manufactured, distributed and commissioned by Guardian Telecom. From certified and ruggedized telephone and paging endpoints, to loudspeakers & ringers, cable, accessories, acoustic booths and much more. Our product line is extensive and our knowledge in-depth.

Guardian manufactures and assembles at our modern, ISO certified, CSA, UL and ATEX approved facility located east of the Canadian Rockies in Calgary, Alberta, Canada.

Working closely with our customers has always been a cornerstone in our work ethic. It keeps us up to date on their evolving needs and requirements as they operate in a demanding and uncompromising industrial world.

Guardian Telecom has completed its initial VoIP telephone product launch. As the IP world continues to evolve and grow, we will continue to invest both time and resources in design and testing to meet the stringent requirements that clients demand.

The in-house channel-partner sales and technical teams are here to work directly with you or through our network of distributors and representatives, locally, nationally and globally. Take advantage of their practical experience and product knowledge to make informed decisions based on your communication needs, environmental factors, regulatory requirements, budget considerations, growth and scheduling.

From individual telephone units to complete systems, our focus on customers' distinct needs is also addressed by customizing products whenever practical. From features to colors, finishes to labels, graphics, parts, enclosures and more.

Guardian can help guide you through the product selection process no matter how complex it is. We invite you to contact us to discuss your needs and see if our products & services will be the right fit.



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Toll free (North America) 1 800 363-8010 Tel 403 258-3100 Fax 403 253-4967 E-mail info@guardiantelecom.com

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Guardian Telecom's Product and Services Guide Catalogue is a compilation of individual Category Sections. They include an in-depth selection of Product Data Sheets from our extensive product lines including Analog and VoIP Telephones, Page/Talk, Cable, Talk/Back, PA/GA equipment, Acoustic Booths, Loudspeakers & Ringers and Accessories at the date of publication.

Based on a policy of continuous improvement, Guardian is constantly evaluating and redesigning existing models, adding new features and introducing new products to the benefit of our customers. Additional information can be found on our website at www.guardiantelecom.com.

Page/Talk – Explosion Proof Stations - Class 1 Division I



Station – EXP

13-1

The versatility of five talk lines lets multiple users converse together or independently. Page from any station and two or more people can communicate simultaneously on any available talk line.

- Single Line Station – 120 VAC / 240 VAC / 24 VAC / 24 VDC
- Five Line Station – 120 VAC / 240 VAC / 24 VAC / 24 VDC



Amplifier – EXP-A

13-3

- For use where speakers are required but not stations
- Select from 120 VAC, 230 VAC, 24 VAC or 24 VDC

Page/Talk – Stations - Class 1 Division II



Indoor – PTI

14-1

Easy to operate paging with the versatility of one or five talk lines. Individuals can be paged from any station and two or more people can communicate simultaneously on any available talk line.

- P5550 Single Line Station with Ambient Noise Sensor
- P5551 Five Line Station with Ambient Noise Sensor
- P5552 Single Line with Ambient Noise Sensor and Headset Receptacle*
- P5553 Five Line with Ambient Noise Sensor and Headset Receptacle*
- P5554 Single Line
- P5555 Multi Line
- P5556 Single Line with Headset Receptacle*
- P5557 Five Line with Headset Receptacle*

*not for use in Hazardous Areas



Outdoor – PTO

14-3

Housed in Guardian's rugged exterior enclosure, PTO Page/Talk stations provide the PTI's easy to operate paging and versatility outdoors. Page individuals from any station and two or more people can communicate simultaneously on any available talk line. Select from models with one or five talk lines.

- P5528 Five Line with Headset Receptacle*
- P5529 Five Line with Ambient Noise Sensor and Headset Receptacle*
- P5568 Single Line Station with Ambient Noise Sensor
- P5569 Single Line
- P5575 Multi Line
- P5576 Five Line Station with Ambient Noise Sensor
- P5577 Single Line with Ambient Noise Sensor and Headset Receptacle*
- P5578 Single Line with Headset Receptacle*

*not for use in Hazardous Areas

Page/Talk continued ...

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Page/Talk – Stations - Class 1 Division II



Speaker Amplifier – PSA

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Guardian's PSA Page/Talk Speaker Amplifier gives you the capability of adding extra speakers without the need for a paging station.

- P5570 Indoor, Steel Enclosure, Ambient Noise Sensor
- P5571 Indoor, Steel Enclosure
- P5574 Outdoor, Thermoplastic Resin Enclosure, Ambient Noise Sensor
- P5579 Outdoor, Thermoplastic Resin Enclosure



Desk Station and Amplifier – PTD/PDA

14-7

Page individuals from any station using this desk top unit. Provides the versatility of one or five talk lines. One or more persons can communicate on any available talk line.

- P5590 Single Line, Ambient Noise Sensor, Push to Page on handset
- P5591 Five Line, Ambient Noise Sensor, Push to Page on handset
- P5592 Single Line, Push to Page on handset
- P5593 Five Line, Push to Page on handset



Page/Talk – System Cable

15-1

Guardian's goal is to be responsive to the requirements of our customers and supply quality cable products that will provide lasting dependable service. Guardian Telecom's System Cable is specially manufactured to our specifications and designed to make installation of communication systems both simple and straight forward.

CSA and UL approved cabling optimizes Guardian Telecom's communication systems performance. Available in numerous configurations suitable for speaker wiring, Page/Talk systems, conducting power and other communication requirements. All System Cable is available in standard or heavy duty armored jacket.

Armored System Cable can be installed in Class I, Division 1 and Class II, Division 1 hazardous areas when used with approved connectors. Guardian's System Cable is also compatible with similar equipment

- P006425 2 Conductor 18 AWG, Industrial Speaker Cable
- P006217 4 Conductor 18 AWG, Industrial Armored Speaker Cable
- P006216 4 Conductor 18 AWG, Industrial Non-armored 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, Multiline, Page/Talk
- P005219 Standard Duty 16 Conductor Cable, Multiline, Page/Talk
- P006218 Heavy Duty 17 Conductor Armored Cable, Multiline, Page/Talk

Page/Talk continued...

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Page/Talk – System Components

Added versatility and control for Page/Talk or Page/Party® systems

Merge Isolate Zone Control – MIZCS

16-1

Reduce the demands of heavy communication traffic by isolating the number of users into smaller zones. When broader paging and communication coverage on Page/Talk and Page/Party® systems is required the merge function brings individual or all zones together to deliver essential communication on larger systems. MIZCS Merge Isolate Zone Control Systems are designed expand, allowing you to add five zone multiples in tandem.



Merge Isolate Switching Cabinet – MICAB

- Five zone support
- Supports up to 6 master control stations
- Optional wall mount cabinet
- Optional MICAB Merge Isolate Switching Cabinet – Wall Cabinet



Master Control Station – MICON

- Single button merge/isolate for all zones
- High impact thermoset compound
- Configure for desk or wall mount



Interface – PTTI

The Guardian Telecom PTTI Interface is designed to connect a Page/Talk system to public or private telephone systems in industrial environments.

16-3

- Rack Mount or Wall Mount models



Multi-Tone Alarm Generator – AG17

Reliable ten-tone generator with user programmable alarm tone, priority, duration and triggering. Works with general alarm and public address systems.

16-5

- Two models: Multi-Tone Generator with Relay and Multi-Tone Generator – No Relay



Line Balance Assembly – PTL

Guardian Telecom's PTL Page/Talk Line Balance Assembly provides the line loading resistance necessary to minimize noise, sidetone and crosstalk in a Page/Talk System.

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Contact Guardian Telecom for details.



Terminal Junction Box – PTJ

Guardian's PTJ Terminal Junction Box provides a convenient method of branching out up to five legs of Page/Talk system wiring from one location.

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Contact Guardian Telecom for details.

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EXP Page/Talk Explosion Proof Stations



EXP Page/Talk
Explosion Proof
Five Line Station

FEATURES and BENEFITS

- Approved for Class I and II, Division 1 areas
- Water tight and dust protected explosion proof enclosure
- Power supply 24 VDC or 24/120/230 VAC
- Cast aluminum base and faceplate (copper free)
- Page-switch on faceplate
- Noise canceling microphone
- Electronic hook switch provides durability
- Durable powder coat paint (standard color shown)
- Side tone adjustment
- 12 watt speaker amplifier
- Monitors ambient noise and adjusts speaker volume automatically
- Removable screw and plug Combicon connectors allow for ease of installation
- Single line or multi line (5 lines)
- Can replace or be added to existing systems provided by several other manufacturers

APPLICATIONS

This product is designed for use in locations with the highest hazardous area classification such as:

- Mines
 - Chemical Plants
 - Refineries
 - Drilling Rigs
 - Defense Installations
 - Cement Plants
 - Bulk Loading Stations
 - Pulp & Paper Mills
 - Grain Processing and Similar Industries
 - Power Generation Facilities
 - Fertilizer Plants
 - Food Processing Plants
 - Sewage Plants
 - Construction Sites
 - Breweries & Distilleries
 - Pharmaceutical Plants
- and more . . .

INSTALLATION and CONNECTABILITY

Guardian's EXP Explosion Proof Station gives you the flexibility to set up a system based on your needs – as well as the ability to integrate equipment already in place. The EXP Explosion Proof Station components connect through simple plugs and Guardian Telecom cable for easy installation. As part of an integrated system, the EXP Explosion Proof Station also interfaces with existing detection, alarm and process control equipment.

Recommended speaker:
SR40 (P7247) 40 watt 16 OHM
Explosion Proof Class I & II,
Division 1

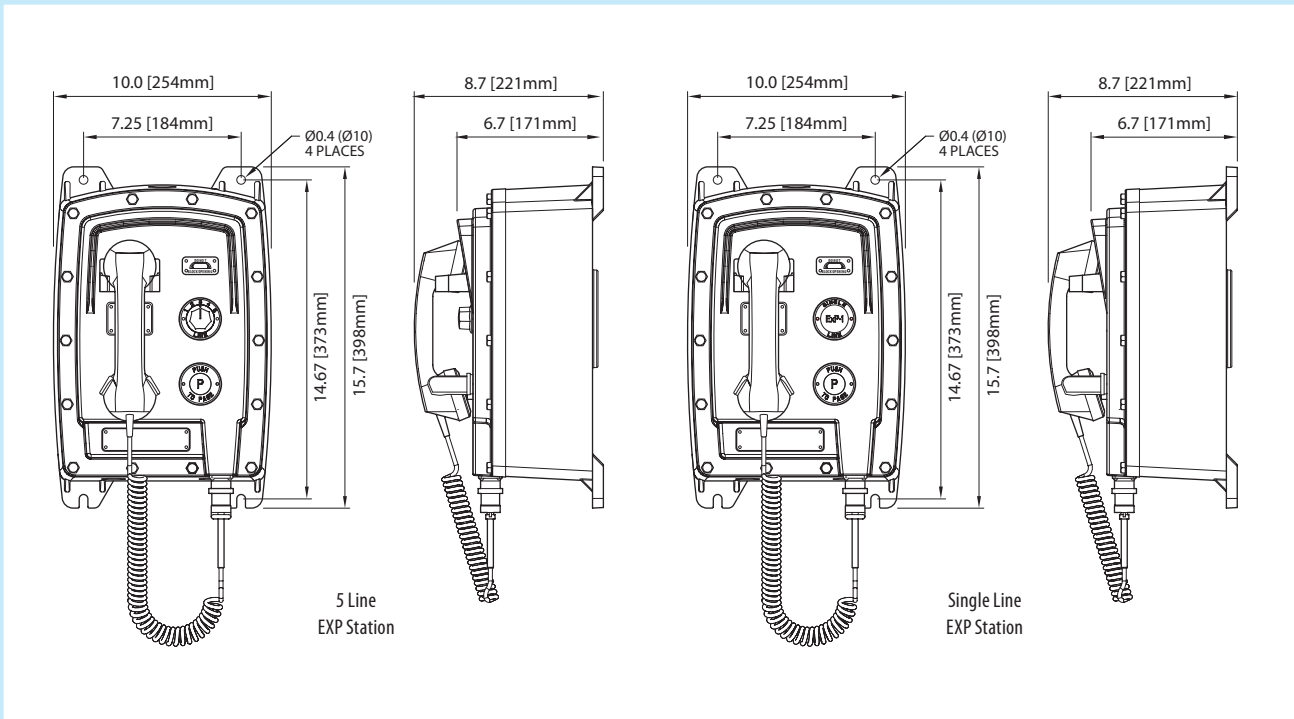


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OVERALL DIMENSIONS



EXP Page/Talk Explosion Proof Stations

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Input Voltage	20-29 VDC	20-26 VAC	90-140 VAC	200-260 VAC
Power Cycle	n/a	50/60 Hz	50/60 Hz	50/60 Hz
Current	0.5 Amp	0.5 Amp	0.1 Amp	0.05 Amp
Fuse	1 Amp	1 Amp	0.5 Amp	0.25 Amp

HANDSET AMPLIFIER

Transmit Gain	50 dB
Frequency Response	250 - 4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz at Maximum Output

SPEAKER AMPLIFIER

Maximum Output Power	12 Watts
Amplifier Gain	50 dBm 0.5 RMS at Rated Output
Frequency Response	250 - 4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz at Maximum Output
Input Impedance	200K Ohms Nominal

MECHANICAL SPECIFICATIONS

Body Construction	Copper-free Cast Aluminum & Powder Coated
Net Weight	30 lbs (13.6 kg)
Shipping Weight	38.0 lbs (17.3 kg)
Shipping Dimensions (L x W x D)	20.0" x 15.0" x 11.5" (508 x 381 x 293 mm)
Mounting	Vertical Wall
Connection Fittings	Conduit or Cable Gland

ENVIRONMENTAL

Weather Proof Enclosure	CSA Type 4X
Dust & Corrosion Resistant	Full Gasket Faceplate
Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

CSA COMPLIANCE (Canada and United States)

Class 4818 02	- Signal Appliances - Audible - For Hazardous Locations
Class 4818 82	- Signal Appliances - Audible - For Hazardous Locations Certified to US Standards
Class I, Div. 1, Groups B, C and D; Class II, Div. I, Groups E, F and G	
Canada:	Class I Zone 1 Ex d IIB+H2 T5
United States:	Class I Zone 1 AEx d IIB+H2 T5; Class II Zone 21

ORDERING INFORMATION

Warranty: One year parts and labor

EXP Page/Talk Explosion Proof Station

Order No.	Description
P5930	EXP Single Line Paging Station, 120 VAC
P5931	EXP Single Line Paging Station, 230 VAC
P5932	EXP Single Line Paging Station, 24VAC
P5933	EXP Single Line Paging Station, 24 VDC
P5935	EXP Five Line Paging Station, 120 VAC
P5936	EXP Five Line Paging Station, 230 VAC
P5937	EXP Five Line Paging Station, 24 VAC
P5938	EXP Five Line Paging Station, 24VDC

Distributed by:

EXP-A Page/Talk Explosion Proof Speaker Amplifier Station



Guardian's EXP-A Explosion Proof Amplifier is designed to deliver safe, reliable, cost effective industrial communications in Class I & II, Division 1 hazardous areas without the need for a paging station.

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FEATURES and BENEFITS

- Water/dust tight NEMA 4X explosion proof enclosure
- Cast aluminum base and faceplate
- Durable powder coat paint
- Power supply 24 VDC or 24/120/230 VAC
- 4 - 16 Ohm speaker compatible
- Approved for Class I and II, Division 1 areas
- Monitors ambient noise and adjusts speaker volume automatically
- Removable screw and plug Combicon connectors allow for ease of installation

CONTROLS

- Ambient noise level sensor
- Speaker volume output

APPLICATIONS

This product is designed for use in locations with the highest hazardous area classification such as:

- Mines
 - Grain Processing and Similar Industries
 - Chemical Plants
 - Power Generation Facilities
 - Refineries
 - Fertilizer Plants
 - Drilling Rigs
 - Food Processing Plants
 - Defense Installations
 - Sewage Plants
 - Cement Plants
 - Construction Sites
 - Bulk Loading Stations
 - Breweries & Distilleries
 - Pulp & Paper Mills
 - Pharmaceutical Plants
- and more . . .

INSTALLATION and CONNECTABILITY

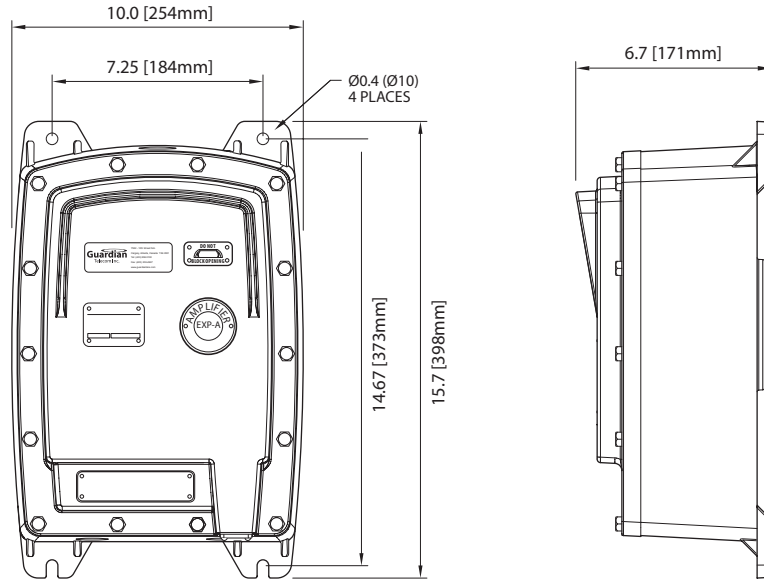
Guardian's EXP-A Explosion Proof Amplifier gives you the flexibility to set up a system based on exactly what you need – as well as the ability to integrate equipment already in place.

The EXP-A Explosion Proof Amplifier components connect through simple plugs and Guardian Telecom cable for easy installation. As part of an integrated system, the EXP-A Explosion Proof Amplifier also interfaces with existing detection, alarm and process control equipment.

Recommended speaker:
SR40 (P7247) 40 watt
16 Ohm Explosion Proof
Class I & II, Division 1



OVERALL DIMENSIONS



EXP-A Explosion Proof Speaker Amplifier Station

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Input Voltage	20-29 VDC	20-26 VAC	90-140 VAC	200-260 VAC
Power Cycle	n/a	50/60 Hz	50/60 Hz	50/60 Hz
Fuse	1 Amp	1 Amp	0.5 Amp	0.25 Amp

SPEAKER AMPLIFIER

Maximum Output Power	12 Watts RMS
Amplifier Gain	50 dB
Frequency Response	250 - 4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz
Input Impedance	200K Ohms Nominal

MECHANICAL SPECIFICATIONS

Body Construction	Copper Free Cast Aluminum
Finish	Powder Coated
Body Dimensions (H x W x D)	15.7" x 10" x 6.7" (398 x 254 x 171 mm)
Net Weight	28 lbs (12.3 kg)
Shipping Weight	36.0 lbs (16.4 kg)
Shipping Dimensions (L x W x D)	20.0" x 15.0" x 11.5" (508 x 381 x 293 mm)
Mounting	Vertical Wall
Connection to System	Conduit or Cable Gland

ENVIRONMENTAL

Weather Proof Enclosure	CSA Type 4X
Dust & Corrosion Resistant	Full Gasket Faceplate
Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

CSA COMPLIANCE (Canada and United States)

Class 4818 02	– Signal Appliances – Audible – For Hazardous Locations
Class 4818 82	– Signal Appliances – Audible – For Hazardous Locations Certified to US Standards
Class I, Div. 1, Groups B, C and D; Class II, Div. I, Groups E, F and G	
Canada:	Class I Zone 1 Ex d IIB+H2 T5
United States:	Class I Zone 1 AEx d IIB+H2 T5; Class II Zone 21

ORDERING INFORMATION

Warranty: One year parts and labor

Order No. Description

EXP-A Page/Talk Explosion Proof Amplifier Station

P5982	EXP-A Amplifier Station, 120 VAC
P5987	EXP-A Amplifier Station, 230VAC
P5988	EXP-A Amplifier Station, 24VAC
P5989	EXP-A Amplifier Station, 24VDC

Distributed by:

PTI Page/Talk Indoor Stations



PTI Single Line Station



PTI Single Line Station with ambient noise level sensor



PTI Five Line Station with ambient noise level sensor and headset receptacle option



PTI Five Line Station with optional flush-mount kit



Guardian's PTI Page/Talk stations provide easy to operate paging with the versatility of one or five talk lines. Individuals can be paged from any station and two or more people can communicate simultaneously on any available talk line.

	Faceplate finish – TB Nickel Blush
	Housing finish – Hammertone Grey

Guardian Telecom



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FEATURES and BENEFITS

- The common hand set amplifier unit is compatible with either single line or five line systems
- Power supply 24 VDC or 24/120/230 VAC
- Approved for Class I & II, Division 2 hazardous areas
- Corrosion protected & powder coated faceplate
- Powder coated 16 gauge aluminum enclosure
- Off hook status LED indicator
- Magnetic hook switch provides maximum durability
- Push-to-page switch on handset
- Noise canceling microphone
- Compatible with most other manufacturer's systems
- Optional headset plug-in for Guardian Telecom industrial headset (not approved for use in hazardous areas)
- Optional ambient noise sensor adjusts speaker volume automatically
- Optional flush-mount kit

CONTROLS

- Speaker volume output (adjustable from front panel)
- Ambient noise level sensor (optional)
- Microphone gain
- Receiver level
- Side tone adjustment

APPLICATIONS

This equipment is designed for use in harsh industrial environments and Class I & II Division 2 hazardous areas such as:

- Mines
- Chemical Plants
- Refineries
- Drilling Rigs
- Defense Installations
- Cement Plants
- Bulk Loading Stations
- Pulp & Paper Mills
- Grain Processing and Similar Industries
- Power Generation Facilities
- Fertilizer Plants
- Food Processing Plants
- Sewage Plants
- Construction Sites
- Breweries & Distilleries
- Pharmaceutical Plants

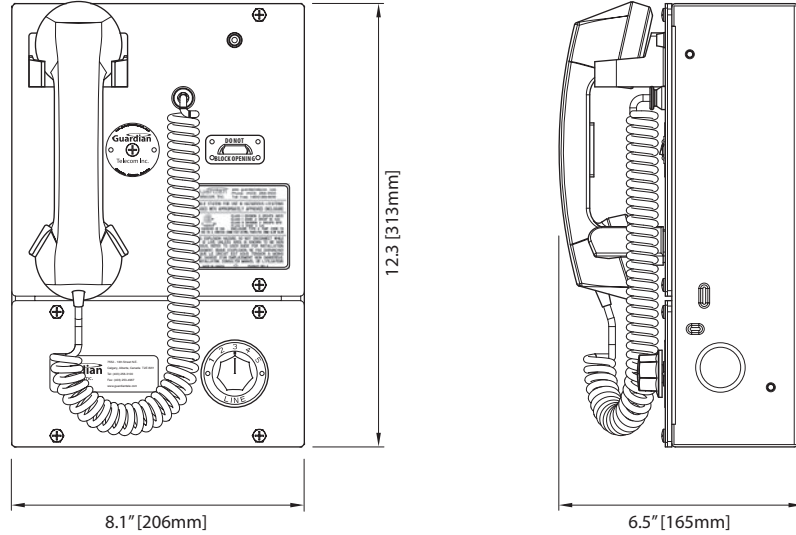
INSTALLATION and CONNECTABILITY

Guardian's modular approach to system design gives you the flexibility to set up systems based on exactly what is needed – as well as the ability to integrate equipment already in place. Our common amplifier unit is compatible with single line or five line Guardian Page/Talk stations, and GAI-Tronics Page/Party® stations. As part of an integrated system, the Guardian Page/Talk series also interfaces with existing detection alarm and process control equipment. With the addition of a Guardian telephone interface unit, Guardian Page/Talk equipment also connects to existing telephone networks.



OVERALL DIMENSIONS

PTI Five Line Station
with Ambient
Noise Sensor



PTI Page/Talk Indoor Stations

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Input Voltage	20-29 VDC	20-26 VAC	90-140 VAC	200-260 VAC
Power Cycle	n/a	50/60 Hz	50/60 Hz	50/60 Hz
Fuse	1 Amp	1 Amp	0.5 Amp	0.25 Amp

SPEAKER AMPLIFIER

Amplifier Maximum Output Power	12 Watts RMS
Amplifier Gain	50 dB
Frequency Response	250-4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz
Input Impedance	200 K Ohms Nominal

MECHANICAL SPECIFICATIONS

Body Construction	Powder Coated 16 Ga Aluminum
Faceplate	Corrosion Protected & Powder Coated
Net Weight	16 lbs (7.26 kg)
Shipping Weight	18.0 lbs (8.2 kg)
Shipping Dimensions (L x W x D)	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
Hand Set Construction	High Impact ABS
Standard Mounting	Vertical Wall
Connection to System	Conduit or Cable Gland

ENVIRONMENTAL

Weather Proof Enclosure	Type 3R
Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

CSA COMPLIANCE (Canada and United States)

Class 4818 02	— Signal Appliances — Audible — For Hazardous Locations
Class 4818 82	— Signal Appliances — Audible — For Hazardous Locations Certified to US Standards
Canada:	Class I, Division 2, Groups A, B, C and D; Class II Groups E, F and G; T6
United States:	Class I, Division 2, Groups A, B, C and D; Class II Groups E, F and G; Class I Zone 2, T6

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description			
	Single Line Station	Five Line Station	Ambient Noise Sensor	Headset Receptacle*
P5550	●		●	
P5551		●	●	
P5552	●		●	●
P5553		●	●	●
P5554	●			
P5555		●		
P5556	●			●
P5557		●		●

Options

P5540 Push-to-Page Headset

* not for use in hazardous areas

For GAI-Tronics Page/Party® Amplifier Replacement Modules and Page/Party® Handset Replacement Modules refer to the PPA & PPR product sheet.

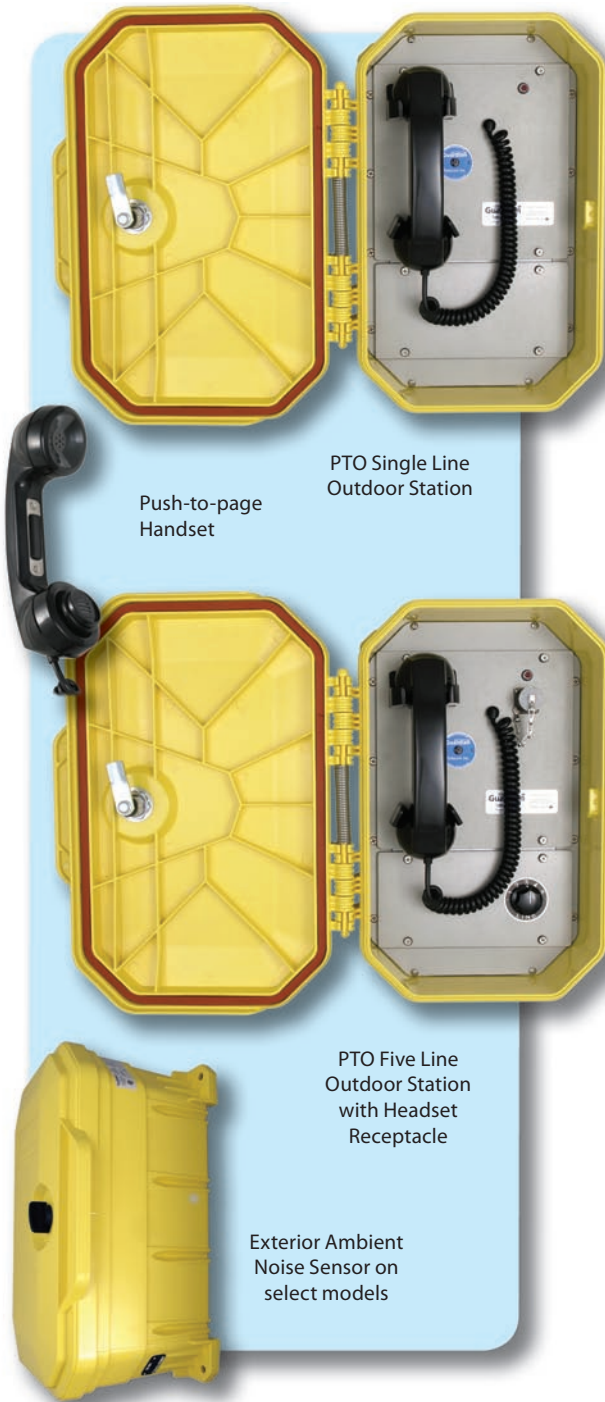
For Guardian Telecom Page/Talk Amplifier Replacement Modules and Page/Talk Handset Amplifier Replacement Modules refer to the PTA & PTR product sheet.

WHEN PLACING AN ORDER SPECIFY

• Power Supply 24 VDC or 24/120/230 VAC

Distributed by:

PTO Page/Talk Outdoor Stations



Push-to-page Handset
PTO Single Line Outdoor Station

PTO Five Line Outdoor Station with Headset Receptacle

Exterior Ambient Noise Sensor on select models

Guardian's PTO Page/Talk stations provide easy to operate paging with the versatility of one or five talk lines. Individuals can be paged from any station and two or more people can communicate simultaneously on any available talk line.

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FEATURES and BENEFITS

- Water/dust-tight thermoplastic resin enclosure, Type 4X & IP66
- The common hand set amplifier unit is compatible with either single line or five line systems
- Power supply 24 VDC or 24/120/230 VAC
- Approved for Class I & II, Division 2 hazardous areas
- Corrosion protected & powder coated faceplate
- External ambient noise sensor adjusts speaker volume automatically
- Off-hook status LED indicator
- Magnetic hook switch provides maximum durability
- Push-to-page switch on handset
- Noise canceling microphone
- Optional headset plug-in for Guardian Telecom industrial headset (not approved for use in hazardous areas)
- Compatible with most other manufacturer's systems

CONTROLS

- Speaker volume output (adjustable from front panel)
- Ambient noise level sensor (optional)
- Microphone gain
- Receiver level
- Side tone adjustment

APPLICATIONS

This equipment is designed for use in harsh industrial environments and Class I & II Division 2 hazardous areas such as:

- Mines
- Chemical Plants
- Food Processing Plants
- Refineries
- Sewage Plants
- Pharmaceutical Plants
- Cement Plants
- Fertilizer Plants
- Pulp & Paper Mills
- Drilling Rigs
- Construction Sites
- Breweries & Distilleries
- Bulk Loading Stations
- Power Generation Facilities
- Defense Installations
- Grain Processing and Similar Industries and more . . .

INSTALLATION and CONNECTABILITY

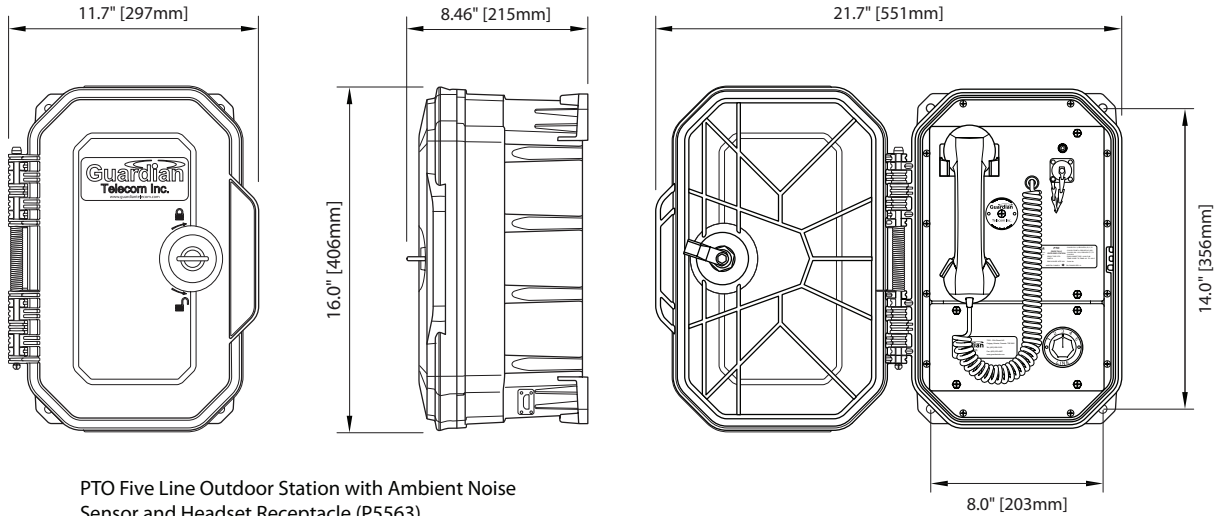
Guardian's modular approach to system design gives you the flexibility to set up systems based on exactly what is needed – as well as the ability to integrate equipment already in place. Our common amplifier unit is compatible with single line or five line Guardian Page/Talk stations, and GAI-Tronics Page/Party® stations. As part of an integrated system, the Guardian Page/Talk series also interfaces with existing detection alarm and process control equipment. With the addition of a Guardian telephone interface unit, Guardian Page/Talk equipment also connects to existing telephone networks.



ACCESSORIES and OPTIONS

- Choice of enclosure colors**
- Custom embossed logo or smooth face for label**

OVERALL DIMENSIONS



PTO Five Line Outdoor Station with Ambient Noise Sensor and Headset Receptacle (P5563)

PTO Page/Talk Outdoor Stations

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Input Voltage	20-29 VDC	20-26 VAC	90-140 VAC	200-260 VAC
Power Cycle	n/a	50/60 Hz	50/60 Hz	50/60 Hz
Fuse	1 Amp	1 Amp	0.5 Amp	0.25 Amp

AMPLIFIER

Amplifier Maximum Output Power	12 Watts RMS
Amplifier Gain	50 dB
Frequency Response	250 - 4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz
Input Impedance	200 K Ohms Nominal

MECHANICAL SPECIFICATIONS

Body Construction	Thermoplastic Resin
Faceplate	Corrosion Protected & Powder Coated
Net Weight	14.5 lbs (6.6 kg)
Shipping Weight	16.5 lbs (7.5 kg)
Shipping Dimensions (L x W x D)	20.0" x 15.0" x 12.0" (508 x 381 x 305 mm)
Standard Mounting	Vertical Wall
Hand Set Construction	High Impact ABS
Connection to System	Conduit or Cable Gland

ENVIRONMENTAL

Water/Dust Tight Enclosure	Type 4X & IP66
Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

CSA COMPLIANCE (Canada and United States)

Class 4818 02	— Signal Appliances — Audible — For Hazardous Locations
Class 4818 82	— Signal Appliances — Audible — For Hazardous Locations Certified to US Standards
Canada:	Class I, Division 2, Groups A, B, C and D; Class II Groups E, F and G; T6
United States:	Class I, Division 2, Groups A, B, C and D; Class II Groups E, F and G; Class I Zone 2, T6

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description			
	Single Line Station	Five Line Station	Ambient Noise Sensor	Headset Receptacle*
P5568	●		●	
P5576		●	●	
P5577	●		●	●
P5529		●	●	●
P5569	●			
P5575		●		
P5578	●			●
P5528		●		●

Options

P5540 Push-to-Page Headset*

VR-WTE Vandal Resistant Faceplate Screws

Speakers — Guardian offers a wide selection of Hazardous and Non-Hazardous speaker options to give you the flexibility to set up your system based on exactly what is needed.

Choice of enclosure colors**

Custom embossed logo or smooth face for label**

* Models with Headset Receptacle are not certified for use in hazardous areas

** (minimum quantity required) — consult with sales agent

For GAI-Tronics Page/Party® and Guardian Telecom Page/Talk Handset Module Replacements see PPR and PTR cut sheet. For GAI-Tronics Page/Party® and Guardian Telecom Page/Talk Amplifier Replacements see the PPA and PTA product data sheet.

WHEN PLACING AN ORDER SPECIFY

- Power Supply 24 VDC or 24/120/230 VAC

Distributed by:

PSA Page/Talk Speaker Amplifier Stations



PSA Speaker Amplifier

PSA Speaker Amplifier with ambient noise sensor

Thermoplastic Resin Enclosure for Outdoor Applications

Guardian's PSA Page/Talk Speaker Amplifier gives you the capability of adding extra speakers without the need for a paging station.

	Faceplate finish – TB Nickel Blush
	Housing finish – Hammertone Grey

Guardian Telecom



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FEATURES and BENEFITS

- Compatible with Guardian Page/Talk and GAI-Tronics Page/Party® systems
- Power supply 24 VDC or 24/120/230 VAC
- Approved for Class I & II, Division 2 hazardous areas
- Weather resistant and dust protected
- Corrosion protected & powder coated faceplate
- Powder coated 16 gauge aluminum enclosure
- External speaker hook-up
- Optional water/dust tight thermoplastic resin enclosure, Type 4X & IP66
- Compatible with most other manufacturer's systems

CONTROLS

- Speaker volume output (adjustable from front panel)

APPLICATIONS

This equipment is designed for use in harsh industrial environments and Class I & II Division 2 hazardous areas such as:

- Mines
- Chemical Plants
- Food Processing Plants
- Refineries
- Sewage Plants
- Pharmaceutical Plants
- Cement Plants
- Fertilizer Plants
- Pulp & Paper Mills
- Drilling Rigs
- Construction Sites
- Breweries & Distilleries
- Bulk Loading Stations
- Power Generation Facilities
- Defense Installations
- Grain Processing and Similar Industries and more . . .

INSTALLATION and CONNECTABILITY

Guardian's modular approach to system design gives you the flexibility to set up systems based on exactly what is needed – as well as the ability to integrate equipment already in place. Our common amplifier unit is compatible with Guardian Page/Talk stations, and GAI-Tronics Page/Party® stations. As part of an integrated system, the Guardian Page/Talk series also interfaces with existing detection alarm and process control equipment. With the addition of a Guardian telephone interface unit, Guardian Page/Talk equipment also connects to existing telephone networks.

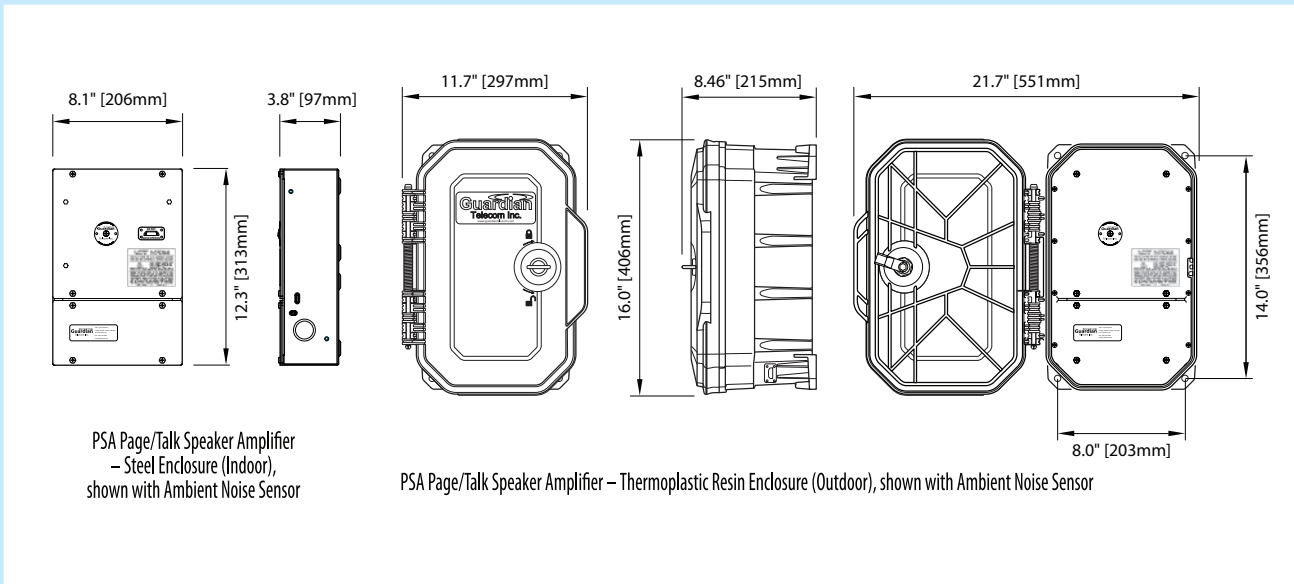
ACCESSORIES and OPTIONS

- Ambient noise level sensor adjusts speaker volume automatically
- Choice of enclosure colors on outdoor enclosure*
- Custom embossed logo or smooth face for label on outdoor enclosure*

Guardian Telecom offers a wide selection of Hazardous and Non-Hazardous speaker options to give you the flexibility to set up your systems based on exactly what is needed.



OVERALL DIMENSIONS



PSA Page/Talk Speaker Amplifier
– Steel Enclosure (Indoor),
shown with Ambient Noise Sensor

PSA Page/Talk Speaker Amplifier – Thermoplastic Resin Enclosure (Outdoor), shown with Ambient Noise Sensor

PSA Page/Talk Speaker Amplifier Stations

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Input Voltage	20-29 VDC	20-26 VAC	90-140 VAC	200-260 VAC
Power Cycle	n/a	50/60 Hz	50/60 Hz	50/60 Hz
Fuse	1 Amp	1 Amp	0.5 Amp	0.25 Amp

AMPLIFIER REPLACEMENT

Maximum Output Power	12 Watts RMS
Amplifier Gain	50 dB
Frequency Response	250 - 4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz
Input Impedance	200k Ohms Nominal

CSA COMPLIANCE (Canada and United States)

Class 4818 02	– Signal Appliances – Audible – For Hazardous Locations
Class 4818 82	– Signal Appliances – Audible – For Hazardous Locations Certified to US Standards
Canada:	Class I Zone 1 Ex d IIB+H2 T5
United States:	Class I Zone 1 AEx d IIB+H2 T5; Class II Zone 21

STEEL ENCLOSURE – INDOOR

MECHANICAL SPECIFICATIONS

Body Construction	Powder Coated 16 Ga Aluminum
Faceplate	Corrosion Protected & Powder Coated
Net Weight	10 lbs (4.6 kg)
Shipping Weight	12.0 lbs (5.5 kg)
Shipping Dimensions (L x W x D)	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
Mounting	Vertical Wall
Connection to System	Conduit or Cable Gland

ENVIRONMENTAL

Weather Proof Enclosure	CSA Type 3R
Dust & Corrosion Resistant	Full Gasket Faceplate
Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

THERMOPLASTIC RESIN ENCLOSURE – OUTDOOR

MECHANICAL SPECIFICATIONS

Body Construction	Thermoplastic Resin
Net Weight	13.3 lbs (6.0 kg)
Shipping Weight	15.1 lbs (6.9 kg)
Shipping Dimensions (L x W x D)	20.0" x 15.0" x 12.0" (508 x 381 x 305 mm)
Mounting	Vertical Wall

ENVIRONMENTAL

Water/Dust Tight Enclosure	Type 4X & IP66
Dust & Corrosion Resistant	Full Gasket Faceplate
Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description
P5570	Indoor/Ambient Noise Sensor/Steel Enclosure
P5571	Indoor/Steel Enclosure
P5574	Outdoor/Ambient Noise Sensor/Thermoplastic Resin Enclosure
P5579	Outdoor/Thermoplastic Resin Enclosure

Options

VR-WTE Vandal Resistant Faceplate Screws

Guardian offers a wide selection of Hazardous and Non-Hazardous speaker options to give you the flexibility to set up your system based on exactly what is needed.

Choice of enclosure colors*

Custom embossed logo or smooth face for label*

*(minimum quantity required) – consult with sales agent

WHEN PLACING AN ORDER SPECIFY

- Power Supply 24 VDC or 24/120/230 VAC

Distributed by:

PTD/PDA Page/Talk Desk Station/Amplifier



FEATURES and BENEFITS

- One common amplifier unit compatible with both single line or five line Guardian Page/Talk, and GAI-Tronics Page/Party® stations
- Power supply 24 VDC or 24/120/230 VAC
- Approved for Class I & II, Division 2 hazardous areas
- Black PVC cover on deskset
- 16 gauge steel zinc dichromate plated deskset base
- Corrosion protected and powder coated faceplate on power supply/amplifier
- Powder coated 16 gauge aluminum enclosure on power supply/amplifier
- Internal speaker on deskset
- External speaker hook-up on power supply/amplifier
- Push-to-page switch on handset
- Noise canceling microphone
- Electronic hook switch provides maximum durability

CONTROLS

- Microphone gain, receiver volume, side tone and internal speaker volume on deskset
- External speaker (if used) volume on power supply/amplifier
- Optional ambient noise sensor adjusts speaker volume automatically

APPLICATIONS

This equipment is designed for use in harsh industrial environments and Class I & II Division 2 hazardous areas such as:

- Mines
 - Chemical Plants
 - Refineries
 - Drilling Rigs
 - Defense Installations
 - Cement Plants
 - Bulk Loading Stations
 - Pulp & Paper Mills
 - Grain Processing and Similar Industries
 - Power Generation Facilities
 - Fertilizer Plants
 - Food Processing Plants
 - Sewage Plants
 - Construction Sites
 - Breweries & Distilleries
 - Pharmaceutical Plants
- and more . . .

INSTALLATION and CONNECTABILITY

Guardian's modular approach to system design gives you the flexibility to set up systems based on exactly what is needed – as well as the ability to integrate equipment already in place. Our common amplifier unit is compatible with single line or five line Guardian Page/Talk stations, and GAI-Tronics Page/Party® stations. As part of an integrated system, the Guardian Page/Talk series also interfaces with existing detection alarm and process control equipment. With the addition of a Guardian telephone interface unit, Guardian Page/Talk equipment also connects to existing telephone networks.



PDA
Power Supply
Amplifier

PTD
Desk Station

Guardian's PTD Page/Talk Desk Stations are designed to provide safe, reliable and cost effective communications in harsh industrial environments. They provide easy to operate paging with the versatility of one or five talk lines. Individuals can be paged from any station and two or more people can communicate simultaneously on any available talk line.

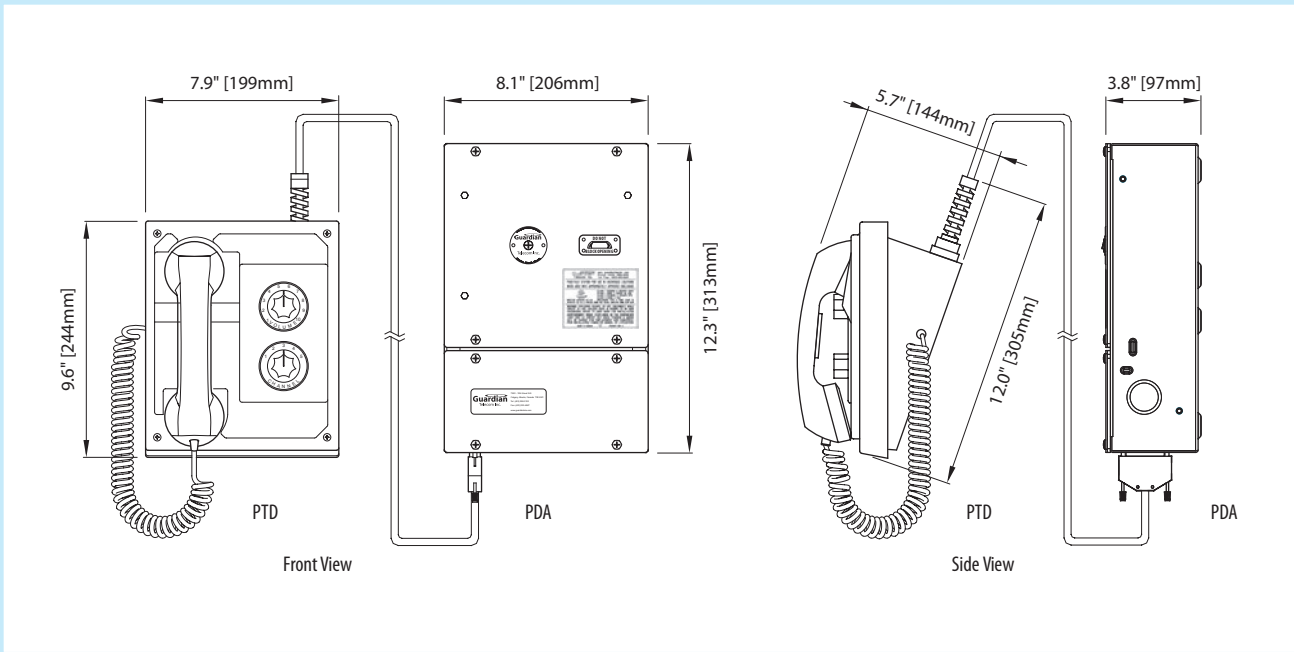
	PDA Faceplate finish – TB Nickel Blush
	PDA Housing finish – Hammertone Grey

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OVERALL DIMENSIONS



PTD • PDA Page / Talk Desk Station / Amplifier

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Input Voltage	20-29 VDC	20-26 VAC	90-140 VAC	200-260 VAC
Power Cycle	n/a	50/60 Hz	50/60 Hz	50/60 Hz
Fuse	1 Amp	1 Amp	0.5 Amp	0.25 Amp

DESKSET

Amplifier Gain	50 dB
Frequency Response	250 - 4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz

AMPLIFIER

Deskset Maximum Output Power	5 Watts RMS
Power Supply/Amplifier Maximum Output Power	12 Watts RMS
Amplifier Gain	50 dB
Frequency Response	250 - 4000 Hz
Distortion	1.0% Maximum THD @ 1000 Hz
Input Impedance	200 K Ohms Nominal

MECHANICAL SPECIFICATIONS

PTD Desk Station

Body Construction	16 Ga Mild Steel
Faceplate	Fire Retardant Thermoplastic
Net Weight	6.6 lbs (3.0 kg)
Shipping Weight	8.0 lbs (3.7 kg)
Shipping Dimensions (L x W x D)	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
Hand Set Construction	High Impact ABS
Connection to Power Supply	via DB25 Conn. & Extra Hard Usage Cable

PDA Power Supply/Amplifier

Body Construction	Powder Coated 16 Ga Aluminum
Faceplate	Corrosion Protected & Powder Coated
Net Weight	10.0 lbs (4.6 kg)
Shipping Weight	11.0 lbs (5.0 kg)
Shipping Dimensions (L x W x D)	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
Connection to System	Conduit or Cable Gland

ENVIRONMENTAL

PTD Desk Station	CSA Enclosure Type 2; Temp. Code T6
PDA Power Supply/Amplifier	CSA Enclosure Type 3R
Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

CSA COMPLIANCE (Canada and United States)

Class 4818 02	— Signal Appliances — Audible — For Hazardous Locations
Class 4818 82	— Signal Appliances — Audible — For Hazardous Locations Certified to US Standards
Canada:	Class I, Division 2, Groups A, B, C and D; T6
United States:	Class I, Division 2, Groups A, B, C and D; Class I Zone 2, T6

ORDERING INFORMATION

Warranty: One year parts and labor

PTD Page / Talk Desk Station complete with Amplifier

Order No.	Description		
	Single Line Station	Five Line Station	Ambient Noise Sensor
P5590	●		●
P5591		●	●
P5592	●		
P5593		●	

WHEN PLACING AN ORDER SPECIFY

- Power Supply 24 VDC or 24/120/230 VAC

Distributed by:

Guardian Telecom System Cable

FEATURES and BENEFITS

Guardian Telecom's System Cable is specially manufactured to our specifications and designed to make installation of communication systems both simple and cost-effective.

- CSA and UL approved electronic and electrical cables optimize Guardian Telecom's communication systems performance.
- Available in numerous configurations suitable for speaker wiring, Page/Talk systems, conducting power and many other communication requirements.
- All System Cable is available in standard or heavy duty armored jacket.
- Armored System Cable can be installed in Class I, Division 1 & 2 and Class II, Division 1 & 2 hazardous areas when used with approved connectors.
- Guardian's System Cable is compatible with similar equipment provided by most manufactures.
- Cable colors and language options are available.
- **For a list of System Cables see ordering information on the back page or contact Guardian Telecom to discuss your needs**

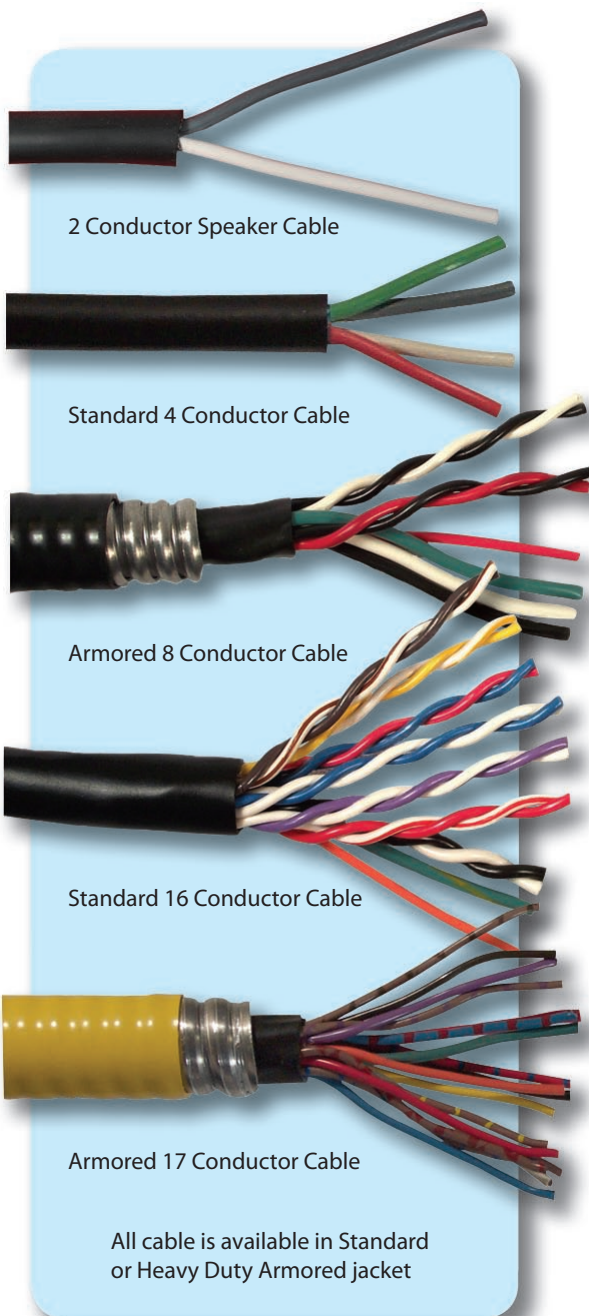
APPLICATIONS

This product is designed for use in locations with the highest hazardous area classification such as:

- Mines
 - Chemical Plants
 - Refineries
 - Drilling Rigs
 - Defense Installations
 - Cement Plants
 - Bulk Loading Stations
 - Pulp & Paper Mills
 - Grain Processing and Similar Industries
 - Power Generation Facilities
 - Fertilizer Plants
 - Food Processing Plants
 - Sewage Plants
 - Construction Sites
 - Breweries & Distilleries
 - Pharmaceutical Plants
- and more . . .

INSTALLATION and CONNECTABILITY

Guardian Telecom's modular approach to system design gives you the flexibility to set up systems based on exactly what you require – as well as the ability to integrate equipment that is already installed.



2 Conductor Speaker Cable

Standard 4 Conductor Cable

Armored 8 Conductor Cable

Standard 16 Conductor Cable

Armored 17 Conductor Cable

All cable is available in Standard or Heavy Duty Armored jacket

Guardian's goal is to be responsive to the requirements of our customers and supply quality cable products that will provide lasting dependable service. Guardian's System Cable makes installing your system simple and cost-effective.

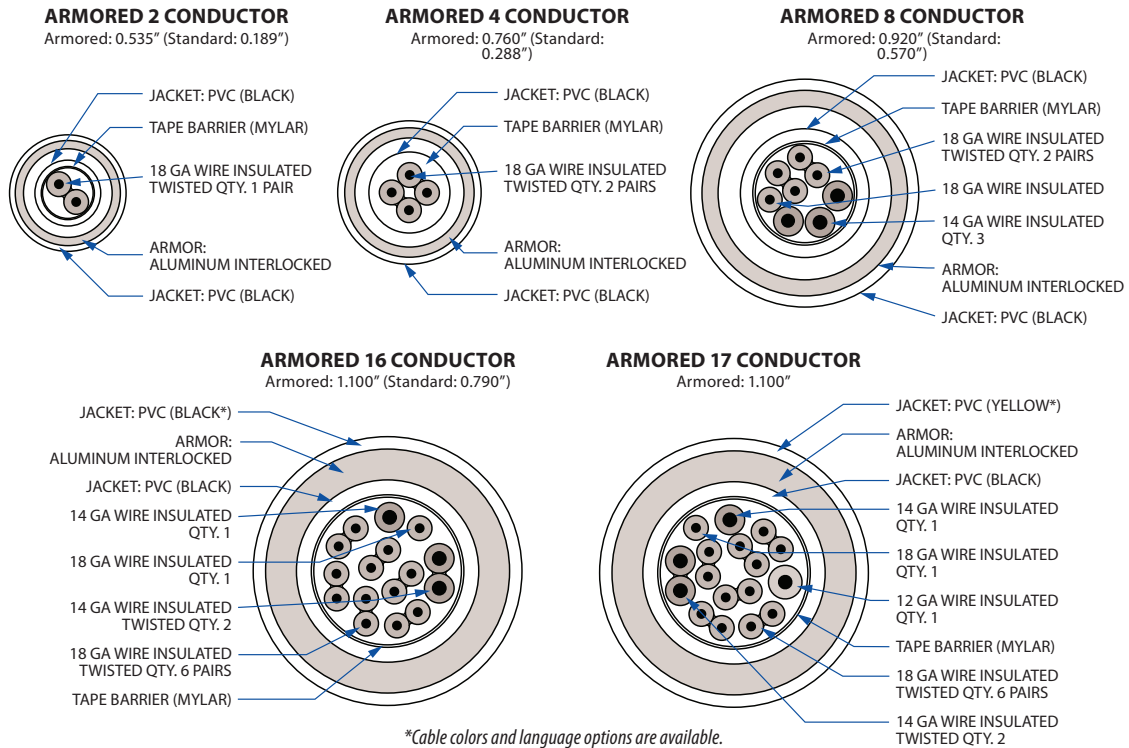
Guardian Telecom



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OVERALL DIMENSIONS

Diagrams shown are with Armored Aluminum Interlock



Guardian Telecom System Cable

ENGINEERING SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Conductor	Bare 7 Annealed Copper Class B in Accordance with ASTM B8		
Insulation	XLPE Rated 221°F (105°C) Dry / 167°F (75°C) Wet to -40°F (-45°C) in Accordance with CSA Stand. C22.2 No. 113 for Type RW90-40 Insulation		
Inner Jacket	Black PCV as per CSA Standard C22.2 No. 0.3, 221°F (105°C) Dry / 167°F (75°C) Wet to -40°F (-45°C) Wet Temperature Rating, FT4 Flame Retardant, Low Acid Emitting (LAG)		
Cable Weight Per Meter			
<i>Standard Duty Cable</i>			<i>Armored Cable</i>
2/c P006425-NA	36 kg/km	2/c P006425	270 kg/km
4/c P006216	—	4/c P006217	460 kg/km
8/c P005916	307 kg/km	8/c P005863	815 kg/km
16/c P005219	620 kg/km	16/c P005366, P007569	929 kg/km
18/c P006936-NA	570 kg/km	17/c P006218	950 kg/km
<i>Non-Armored Power Cable</i>		18/c P006936	971 kg/km
3/c P006399	—		

COMPLIANCE

CEC Class I, Division 1 & 2 Group A, B, C, D, CEC Class II, Division 1 & 2 Group E, F, G 221°F (105°C) Dry / 167°F (75°C) Wet to -40°F (-45°C) environments.
In accordance with CSA Standard C22.2 No. 174

Armor CSA Certified Interlocked Aluminum Armor Suitable for use in Hazardous Locations

Armored Cable Minimum Bend Radius 8 Times the Overall Cable Diameter.

Armored Outer Jacket PVC as per CSA Standard CA.2, No. 131-M89, 221°F (105°C) Dry / 167°F (75°C) Wet to -40°F (-45°C) Temperature Rating, Low Acid Gas Emitting (LAG) with Excellent Corrosion and Sunlight Resistance.

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description
P006425	2 Conductor 18 AWG Industrial Armored Speaker Cable
P006425-NA	2 Conductor 18 AWG Industrial Standard Speaker Cable
P006399	3 Conductor Power Cable
P006217	4 Conductor 18 AWG Industrial Armored Speaker Cable
P006216	4 Conductor 18 AWG Industrial Standard Speaker Cable
P005863	Heavy Duty 8 Conductor Armored Cable (Singleline Page/Talk)
P005916	Standard Duty 8 Conductor Cable (Singleline Page/Talk)
P005366	Heavy Duty 16 Conductor Armored Cable (Multiline, Page/Talk)
P005219	Standard Duty 16 Conductor Cable (Multiline, Page/Talk)
P006218	Heavy Duty 17 Conductor Armored Cable (Multiline, Page/Talk)
P007569	Heavy Duty 16 Conductor Armored Cable, Stranded Tinned Conductors (Multiline, Page/Talk)
P006936	18 Conductor Armored Cable (Select System)
P006936-NA	18 Conductor Non-Armored Duty Cable (Select System)

Distributed by:

Merge Isolate Zone Control System

- MICAB Merge Isolate Switching Cabinet
- MICON Master Control Station

FEATURES and BENEFITS

MICAB Merge Isolate Switching Cabinet

- Five Zone Support
- Supports up to 6 Master Control Stations
- System expandable in tandem, five zone multiples
- Heavy duty Rack Mount Unit (2 U)
- Support for door alarm, loop power monitoring & Data Comm Monitoring
- Also available as a custom Wall Mount Unit

MICON Master Control Station

- Single button merge/isolate for all zones
- Magnetic reed hook-switch (> 1,000,000 operations)
- Integrated paging speaker with volume adjustment
- Factory tested housing and handset are designed and constructed to meet IP-66 standards
- Glass filled polyester (carbon loaded) housing and handset
- Corrosion resistant hardware
- Noise canceling microphone
- Removable handset retainer latches on cradle
- Ergonomic handset with integrated push-to-page switch
- Heavy-duty industrial handset cord
- Urethane coated water tight silicon keypad
- Alarm system control and trigger indication
- System summary alarm indicators
- Lamp test to verify alarm LED's & LCD display operation
- Back lit LCD display – 2 line x 16 character
- Hearing aid compatible & receiver volume adjustment
- Simple field installation with one cable connection to MICAB
- Can be configured for desktop or wall mount applications
- Each MICON comes with 164ft (50m) of cable but will operate up to 1640ft (500m)

INSTALLATION and CONNECTABILITY

Guardian's modular approach to system design gives you the flexibility to set up systems based on exactly what is needed – as well as the ability to integrate equipment already in place.

ACCESSORIES and OPTIONS

	MICON — Master Control Station	MICAB — Merge Isolate Switching Cabinet
Handset cord - extended length (up to 20ft/6.1m) – contact Guardian sales or your representative for details	•	
Conformal coated circuitry – protects components from humidity damage		•
Wall mount cabinet	•	
Armored handset cord		•
External powered paging speaker	•	



MICON Master Control Station – configured for wall mount

MICAB Merge Isolate Switching Cabinet

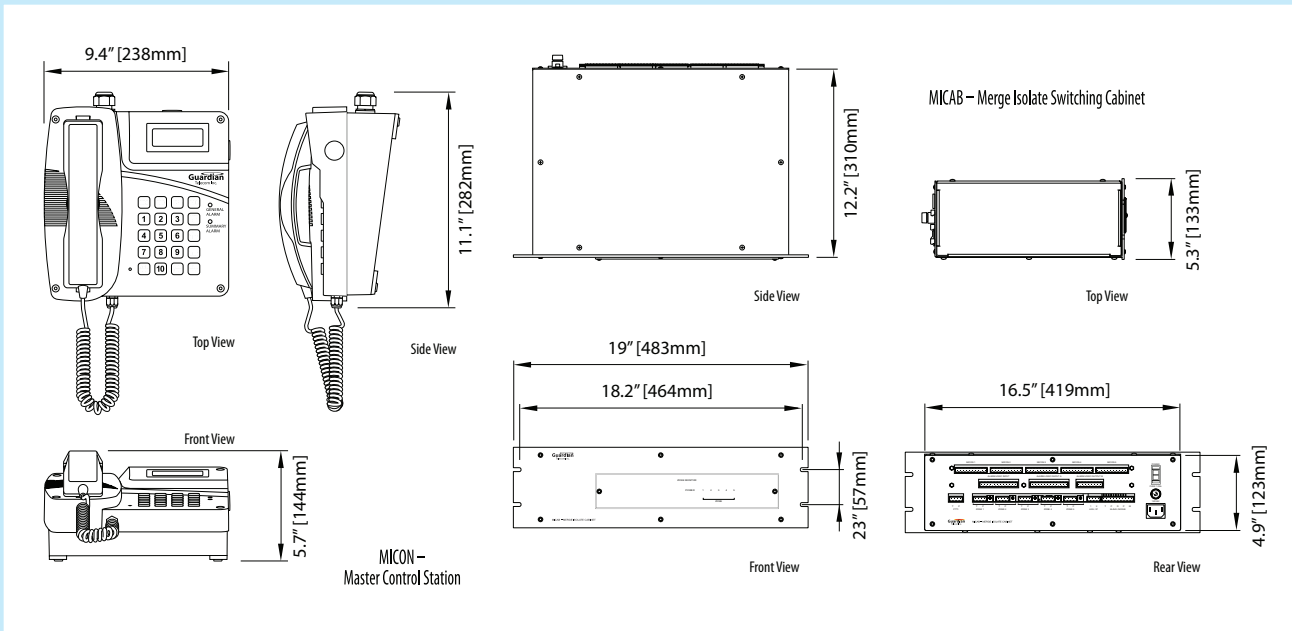
Guardian's robust Merge Isolate Zone Control System allows you to reduce the demands of heavy communication traffic by isolating the number of users into smaller zones. When broader paging and communication coverage on Guardian Telecom Page/Talk and GAI-Tronics Page/Party® systems is required the merge function brings individual or all zones together to deliver essential communication on larger systems. Fully expandable, the MI Zone Control System is designed to grow with your needs allowing you to add five zone multiples in tandem.

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OVERALL DIMENSIONS



MIZCS Merge Isolate Zone Control System

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

MICON Master Control Station

Power Consumption	24VDC, 150mA
Fuse Rating	250mA
Audio Frequency Response	300-3400Hz
Paging Speaker Volume	~85dB @ 1m
Maximum Loop Length	1.6 Kft (~500m) of 24 AWG Wire

MICAB Merge Isolate Switching Cabinet

Power	24VDC / 120VAC / 230VAC, 50/60Hz selectable @ 1.5A Maximum
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ENVIRONMENTAL

MICON Master Control Station

Corrosion Resistant	Full Gasket Faceplate
Temperature Range	-20° to +60°C (-4°F to +140°F)
Weather Proof Enclosure	Type 4X/IP66 Equivalent

MICAB Merge Isolate Switching Cabinet

Temperature Range	-20° to +60°C (-4°F to +140°F)
Weather Rating	NEMA 12

MECHANICAL SPECIFICATIONS

MICON Master Control Station

Body Construction	Glass Filled Polyester (Carbon Loaded)
Hand Set Construction	Glass Filled Polyester (Carbon Loaded)
Net Weight	8.6 lbs (3.9 kg)
Shipping Weight	10.5 lbs (4.8 kg)
Shipping Dimensions (L x W x D)	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
Handset Cord	1.5 m Extended
Mounting	Desk Top or Wall Mount
Wiring Access	Qty. 2 - 7/8" threaded holes to support M20 Glands

MICAB Merge Isolate Switching Cabinet

Body Construction	16 Ga Steel
Face Plate Construction	10 Ga Steel
Face Plate Dimensions	19" x 5.3" (483 x 133 mm)
EIA Standard 2 Rack Units	
Net Weight	Rack 18.0 lbs (8.2 kg)
Shipping Weight	Rack 20.3 lbs (9.3 kg)
Shipping Dimensions (L x W x D)	20.0" x 15.0" x 11.5" (508 x 381 x 293 mm)
Mounting	Rack Mount
Paint	Epoxy Powder Coat

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description	MICON – Master Control Station	MICAB – Merge Isolate Switching Cabinet
P9000	MICAB Merge Isolate Switching Cabinet		
P9001	MICON Master Control Station*		
* Master Station cable length must be specified and quoted at time of order.			
Options			
LC	Extended handset cords (up to 20ft/6.1m) – contact Guardian Sales or your representative for details	●	
CC	Conformal coated circuitry	●	●
AC	Armored handset cord	●	
ES	External powered paging speaker	●	

Page/Party® is a registered trade-mark of GAI-Tronics and is used solely to identify their communication station. Use of the name, trademark and images does not imply GAI-Tronics endorsement or approval of this product. Establishment of specifications, operation and warranty of the product are the sole responsibility of Guardian Telecom Inc.

Distributed by:

PTTI

Page/Talk Telephone Interface

FEATURES and BENEFITS

The PTTI Telephone Interface permits incoming calls from a public or private telephone system to access a Page/Talk system, allowing paging access as well as full-duplex talk line communication. This effectively expands your communications abilities across the Page/Talk stations in the harsh environments and the normal telephones in other environments such as offices.

The interface provides four different modes of access for each of the day and night configurations. The selection of day/night mode and the release and link functions are controlled by onboard or remote switches. Outgoing calls from the Page/Talk system to the telephone system may be made with the assistance of an operator who has access to the switch inputs.

The four different access modes are:

- **VOICE ACCESS** – provides automated access for incoming calls and allows the caller to page directly over the speakers and then switches to the designated talk line for conversation.
- **RING ACCESS** – provides automated access by broadcasting a ring signal on the speakers and switching to the designated talk line when a handset on the Page/Talk system is lifted.
- **SELECTIVE ACCESS** – requires the calling party to know the ID number, therefore adding a level of security to the Page/Talk system. Once the correct ID is accepted, the calling party can select either voice or ringing access to the system.
- **MANUAL ACCESS** – requires operator intervention to either answer an incoming call or place an outgoing call and then manually linking the call to the Page/Talk system.

INSTALLATION and CONNECTABILITY

Guardian's modular approach to system design gives you the flexibility to set up systems based on exactly what is needed – as well as the ability to integrate equipment already in place.



PTTI — Wall Mount



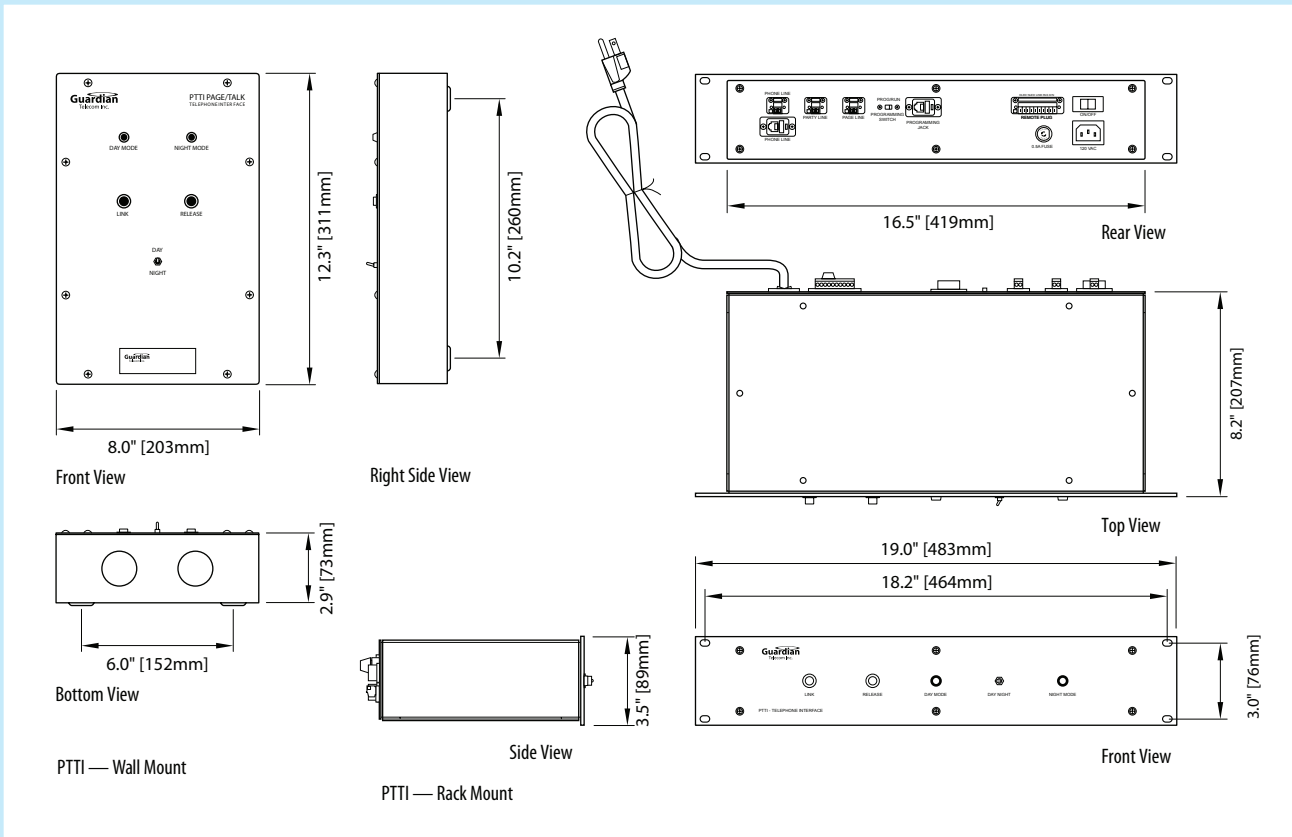
PTTI — Rack Mount

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OVERALL DIMENSIONS



PTTI Page/Talk Telephone Interface

ENGINEERING SPECIFICATIONS

ELECTRICAL PERFORMANCE

Telephone Network Interface	Central Office Line or PBX Line
Network Signaling	DTMF
Ringer Equivalence Number (REN)	0.4 B
Page Line Impedance	33 Ohm Nominal Load from Line Balance Assembly
Talk Line Impedance	33 Ohm Nominal AC Source Internal Load
Output Level	Adjustable: 1.5 VRMS Nominal
Telephone Line Fuse	0.25 Amp, Fast Blow, 2AG

ELECTRICAL REQUIREMENTS

Input Voltage	105 - 130 VAC, 50/60 Hz / 23 - 28 VDC
Input Current	120 VAC 0.1 Amp, 24 VDC 0.5 Amp
Fuse - 120VAC Input	0.5 Amp 250 VAC 2AG Fast Blow
Fuse - 24VDC Input	External 0.75 Amp Fast Blow

ENVIRONMENTAL

Dust & Corrosion Resistant	Full Gasket Faceplate
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MECHANICAL SPECIFICATIONS

PTTI — Wall Mount

Body Construction	16 Ga CRS Steel
Finish	Zinc Dichromate Plated and Powder Coated
Net Weight	11.0 lbs (5.0 kg)
Shipping Weight	14.0 lbs (6.4 kg)
Shipping Dimensions (H x W x D)	20.0" x 15.0" x 11.5" (508 x 381 x 293 mm)
Mounting	Vertical Wall
Wiring Access	2 x 1 3/8" Openings for Owner Supplied Fittings
Hardware Material	Stainless Steel

PTTI — Rack Mount

Body Construction	16 GA Mild Steel
Finish	Zinc Dichromate Plated and Powder Coated
Net Weight	11.6 lbs (5.3 kg)
Shipping Weight	12.0 lbs (5.5 kg)
Shipping Dimensions (H x W x D)	15.0" x 5.0" x 11.5" (89 x 483 x 207 mm)
Mounting	Rack Mount

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description
P5940	PTTI Page/Talk Telephone Interface – Wall Mount
P5941	PTTI Page/Talk Telephone Interface – Rack Mount

Distributed by:

AG17

Multi-Tone Alarm Generator



AG17

The Guardian Telecom AG17 is a reliable ten-tone signal generator designed to work with your general alarm and public address systems. Alarm tone, priority, duration and triggering are all user programmable to meet specific operating safety, and workplace conditions. An audio override facility also allows voice-paging during tone activation, giving you the ability to deliver voice instructions through Page/Talk intercom stations or other paging sources by completely muting or attenuating the active tone.

FEATURES and BENEFITS

- Ten tone alarm library
- User programmable microprocessor to customize tone priority, duration, triggering, muting and attenuation
- Eight channels for output signal priority
- Logic output mirrors control inputs
- Momentary or latching inputs
- 120/230 VAC
- LED alarm activation indicators
- Output level control
- Compact – fits on a standard 19" equipment rack – 2 rack units (2U)
- Audio override for Page/Talk announcements

APPLICATIONS

This product is designed for use in industrial environments such as:

- Mines
 - Chemical Plants
 - Refineries
 - Drilling Rigs
 - Defense Installations
 - Cement Plants
 - Bulk Loading Stations
 - Pulp & Paper Mills
 - Grain Processing and Similar Industries
 - Power Generation Facilities
 - Fertilizer Plants
 - Food Processing Plants
 - Sewage Plants
 - Construction Sites
 - Breweries & Distilleries
 - Pharmaceutical Plants
- and more . . .

INSTALLATION and CONNECTABILITY

The AG17 multi-Tone Alarm Generator is one component in Guardian Telecom's full line of reliable, hard working paging system products – all designed for easy installation and connectability.

Override audio/logic inputs have a higher priority than alarm tone signals and suppress any existing alarm tone to broadcast the override. An active alarm can be completely muted or attenuated by 10 dB, 20 dB, or 60 dB to accommodate an override broadcast.

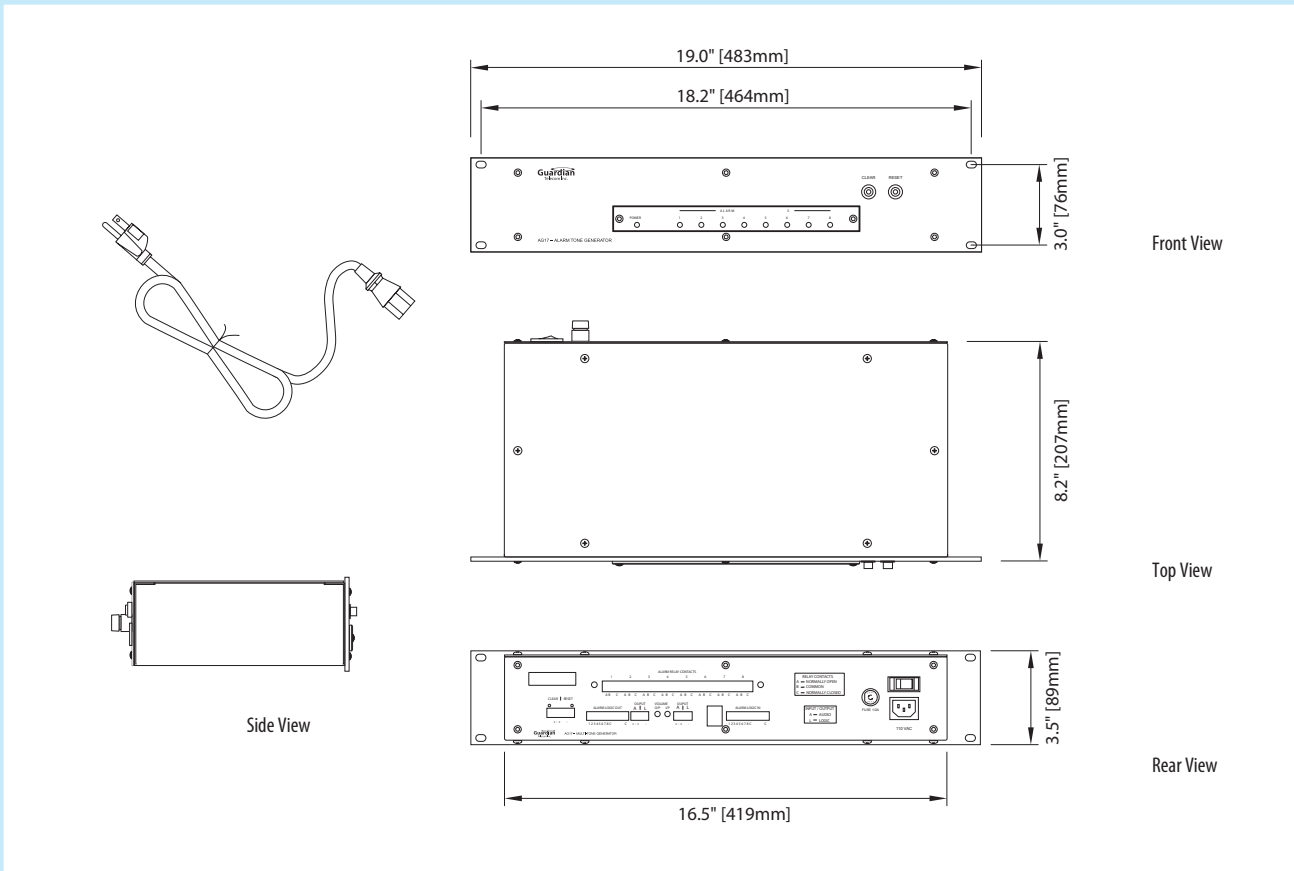
The AG17 can be ordered separately or as part of an integrated system that includes Page/Talk stations, speakers and speaker amplifier units, and distribution amplifiers. Guardian's trained representatives will work with you to customize your operation's general alarm and paging systems.

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OVERALL DIMENSIONS



AG17 Multi-Tone Alarm Generator

ENGINEERING SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Input Supply Voltage	120/230 VAC
Maximum Current Consumption	12 VA
Fuse	1/2 A; 250 V; Fast-Blow

AUDIO PERFORMANCE

Audio Output

Maximum Voltage (Adjustable) Output	1,500 mV
Impedance	20 K Ohms Unbalanced

LOGIC PERFORMANCE

Logic Inputs

Control Input Enable	Open Drain Logic Input
Recommended Activating Devices	Dry Contact Relays
Minimum Open Collector/Open Drain Output	12VDC @ 100 Micro Amperes

Logic Outputs

Maximum Open Drain Output	40VDC @ 300 mA
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MECHANICAL SPECIFICATIONS

Body Construction	16 Ga Mild Steel
Net Weight	12.1 lbs (5.5 kg)
Shipping Weight	14.0 lbs (6.4 kg)
Shipping Dimensions (L x W x D)	20.0" x 15.0" x 11.5" (508 x 381 x 293mm)
Connection Audio	Removable Connection Plug
Connection Logic	Removable Connection Plug

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description
P5960	AG17 Multi-Tone Alarm Generator
P5970	AG17 Multi-Tone Alarm Generator - No Relay

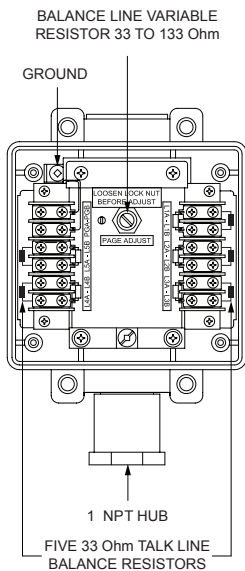
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PTL

Guardian
Telecom Inc.
www.guardiantelecom.com
MADE IN CANADA

PAGE TALK LINE BALANCE ASSEMBLY
MODEL: PTL 5980
S/N: 5980
PHONE: 403-258-3100
14 NORTH AVE. NORTH ABERNETHY, AB T0A 0A0 CANADA



PTL

Page/Talk Line Balance Assembly

Guardian Telecom's PTL Page/Talk Line Balance Assembly provides the line loading resistors necessary to minimize noise, sidetone and crosstalk in a Page/Talk System.

FEATURES and BENEFITS

- Connections for five fixed 33 Ohm resistors for Talk lines and one 33 to 133 Ohm variable resistor for the Page Line
- Weatherproof enclosure
- 1" NPT hub, for ease of installation and wiring
- Compatible with systems provided by most other manufacturers

APPLICATIONS

This equipment is designed for use in harsh industrial environments such as:

- Mines
 - Chemical Plants
 - Refineries
 - Drilling Rigs
 - Defense Installations
 - Cement Plants
 - Bulk Loading Stations
 - Pulp & Paper Mills
 - Grain Processing and Similar Industries
 - Power Generation Facilities
 - Fertilizer Plants
 - Food Processing Plants
 - Sewage Plants
 - Construction Sites
 - Breweries & Distilleries
 - Pharmaceutical Plants
- and more . . .

INSTALLATION and CONNECTABILITY

The PTL Page/Talk Line Balance Assembly can be installed at any convenient location, preferably near the middle of the Page/Talk system. The only adjustment required is to the 100 Ohm potentiometer.

MECHANICAL SPECIFICATIONS

Body Construction	PVC
Body Dimensions (H x W x D)	7.9" x 4.7" x 2.8" (201 x 120 x 71 mm)
Wiring Access	1/2" NPT Conduit Hub

ORDERING INFORMATION

Warranty: One year parts and labor

Order Number	Description
P5980	PTL Page/Talk Line Balance Assembly

Guardian pursues a policy of continuous improvement, therefore specifications are subject to change without notice.

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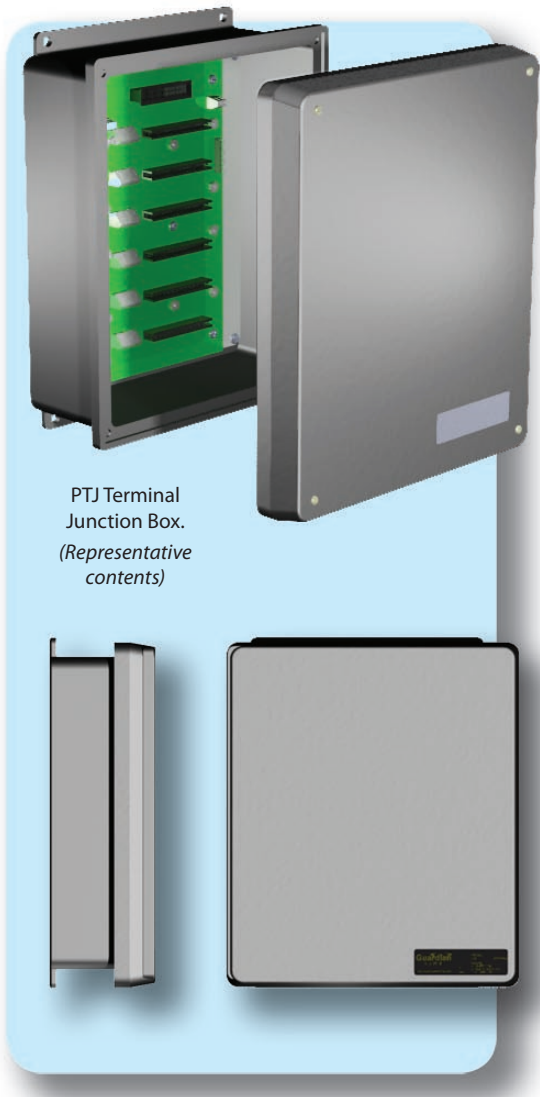
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Intertek

	 ISO-9001:2008 Certification Today's Quality Creates Our Future	Calgary, Alberta, Canada Telephone: 403-258-3100 Facsimile: 403-253-4967 1-800-363-8010 (North America) info@guardiantelecom.com www.guardiantelecom.com
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PTJ TERMINAL JUNCTION BOX

For Page/Talk System Wiring



PTJ Terminal Junction Box.
(Representative contents)

Guardian Telecom's PTJ Terminal Junction Box provides a convenient method of branching out from one to five legs of Page/Talk system wiring from one location. The unit also includes one system test port.

FEATURES and BENEFITS

- Capacity to terminate six (1 in/5 out) cables to Combicon connectors
- Separate test port
- Fiberglass reinforced polyester enclosure, self extinguishing and halogen free
- NEMA 4X and IEC IP66 ratings
- CSA enclosure rating – File #1289924
- Temperature range -58° to +300°F (-50° to +150°C)
- Mounts to any vertical surface
- Dimensions H x W x D 12.8" x 10.7" x 5.6" (325 x 272 x 142 mm)
- Wiring access – solid surfaces for punching holes to customer requirements
- Four stainless steel captive screws secure the cover to the base by means of four threaded brass inserts inset in the base

APPLICATIONS

This equipment is designed for use in harsh industrial environments such as:

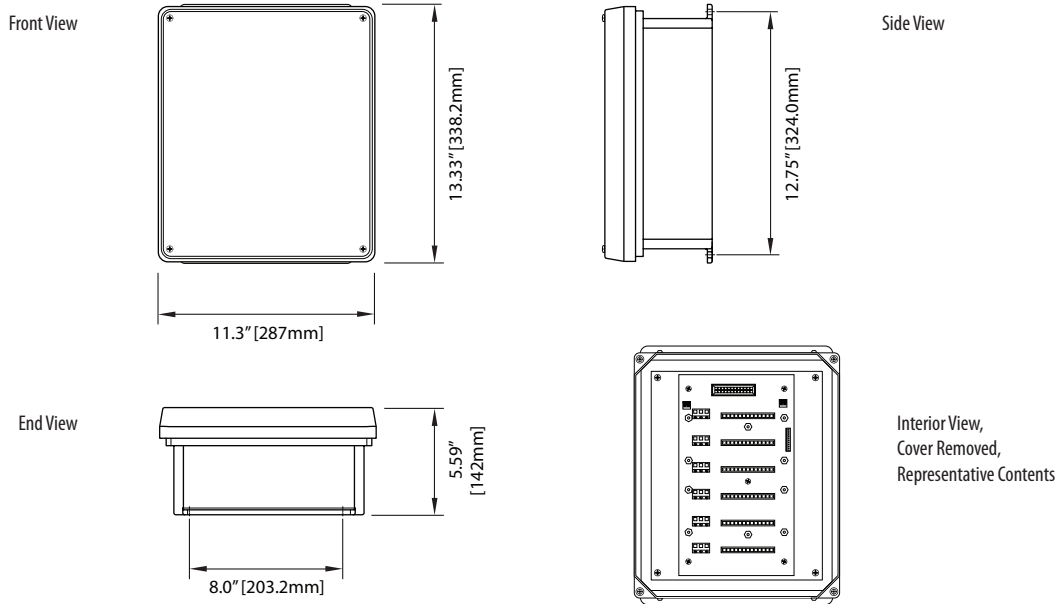
- Mines
 - Grain Processing Plants
 - Chemical Plants
 - Power Generation Facilities
 - Refineries
 - Fertilizer Plants
 - Drilling Rigs
 - Food Processing Plants
 - Sewage Plants
 - Defense Installations
 - Cement Plants
 - Construction Sites
 - Bulk Loading Stations
 - Breweries & Distilleries
 - Pulp & Paper Mills
 - Pharmaceutical Plants
- and more . . .

INSTALLATION and CONNECTABILITY

The PTJ Terminal Junction Box can be wall mounted at any convenient location and up to six cables can be branched out to different legs of a Page/Talk system. Each Combicon connector in the junction box has terminations for up to 16 conductors.



OVERALL DIMENSIONS



PTJ Terminal Junction Box for Page/Talk System Wiring

ENGINEERING SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Termination	Capacity To Terminate Six (1 In/5 Out) Cables To Combicon Connectors
Body Construction	Fiberglass Reinforced Polyester Enclosure, Self Extinguishing And Halogen Free
Wiring Access	Solid Surfaces For Punching Holes To Customer Requirements
Cover Fasteners	Four Stainless Steel Captive Screws Secure The Cover To The Base By Means Of Four Threaded Brass Inserts Inset In The Base
Mounting	Vertical Surface

ENVIRONMENTAL

Temperature Range	-58° to +300°F (-50° to +150°C)
Ingress Protection Nema Rating	IP66 4X

COMPLIANCE

CSA ("C" and "US")	CSA 1289924
	Canada: Class I, Div. 2, Groups A, B, C and D; Class II, Groups E, F and G; T6
	USA: Class I, Div. 2, Groups A, B, C and D; Class II, Groups E, F and G; Class I, Zone 2, T6

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description
P8700	PTJ Terminal Junction Box for Page/Talk System Wiring

Distributed by:

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Guardian Telecom's Product and Services Guide Catalogue is a compilation of individual Category Section Publications

Guardian

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- Sound Studies
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¹ Page/Party® is a registered trademark of GAI-Tronics Inc. Use does not imply endorsement.

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Guardian represents DNH, E2S, Federal Signal, MEDC and TOA, and has access to an extensive range of other world class leading manufacturers. Visit www.guardiantelecom.com for additional information on Explosion Proof, Hazardous Area, ATEX-IEC and General Area Loudspeakers & Ringers.

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Guardian Telecom

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