

# EXP-A Page/Talk Explosion Proof Speaker Amplifier Station

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## EXP-A SERIES

Guardian Telecom's EXP-A Explosion Proof Page/Talk Amplifier is designed to deliver safe, reliable, cost effective industrial communications in Class I and Class II Division 1 areas without the need for a paging station and are deemed to be hazardous due to the presence of flammable gasses, vapors or dust.

## FEATURES and BENEFITS

- Water/dust tight NEMA 4X explosion proof enclosure
- Copper Free 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

Chemical Plants

Refineries

Drilling Rigs

Defense Installations

Cement Plants

Bulk Loading Stations

Pulp & Paper Mills

and more . . .

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 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.

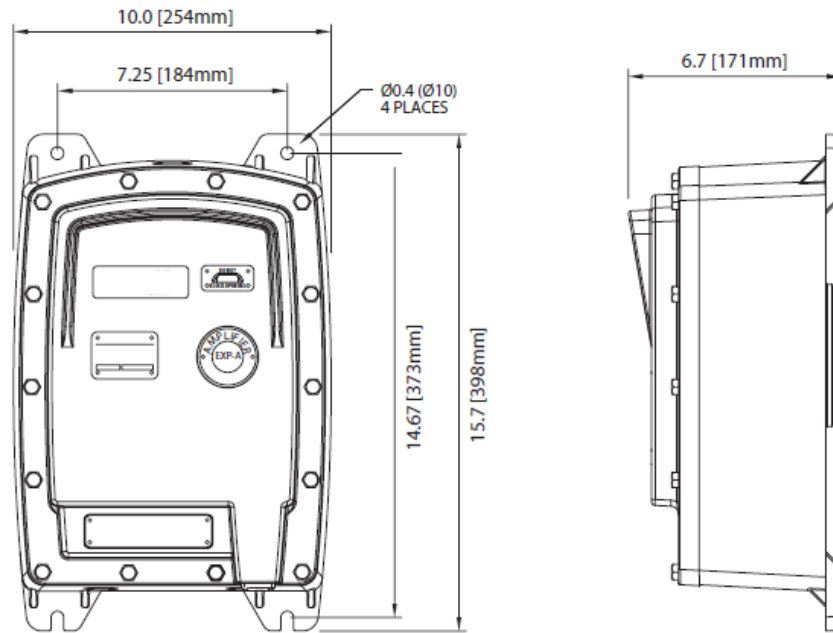
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Recommended speaker:  
SR40 (P7247) 30 watt  
16 Ohm Explosion Proof  
Class I & II, Division 1

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## 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                    |
| 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, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G           |
| United States: | Class I Zone 1 Ex d IIB+H2 T5   |
|                | Class I Zone 1 AEx d IIB+H2 T5; Class II Zone 21                                  |