



Hear the Difference:  
Audible Signals from the leader.

## How to make better audible signals? Listen.

Before we develop an audible signal, we listen – to customers, engineers, industry groups and our competitors' products. Armed with that valuable information we can make Edwards audible signals the better choice for just about any communications need you have.

From the heavy-duty performance of hazardous-location signals to the everyday durability and reliability of our commercial units, all Edwards audible signals perform. They sound clear, loud and

distinct, so you can alert, warn and communicate throughout your facility, campus or locale.

### Audible communications with your people

The appropriate audible signal can get just about any message across. From the low levels in automation systems to emergency evacuation and notification, we can keep your people in the know. Whether workers are concentrating on the job or pedestrians are daydreaming about the weekend, a forceful Edwards audible signal can tell them what they need to know.

### Flexible communications with your systems

Today there are more ways to communicate with your signals than ever before. RS 485, PLC, hard wiring or wireless, GE has the audible signals that fit in with the way you're already configured – we can work however you do. And with our MEDI™ signaling software, we can even help you control your signaling from your desktop or laptop. So from managing routine signaling to handling emergencies, you are always in complete control.



## More audible options

Horns, tones, bells, klaxons, voice – no one give you more audible signaling choices than Edwards. With more unique tones, louder and truer bells, voice clarity and more decibel options, we've got you covered. One look at our communications control, remote paging options and flexible zone control, and you'll agree that our bells and whistles truly come with all the bells and whistles.

## All with Edwards quality, durability and reliability

It just takes one listen, one touch or one heft of an Edwards audible signal to understand the difference. They feel sturdier because they are. Our construction is without peer, the materials top notch, and the fit and finish carefully engineered to last a lifetime. Add in the easy installation, mounting options and one-stop support and it's easy to understand why we are the clear audible signaling leader.

## We hear you, loud and clear

Want to learn more about our audible signals? Or tell us about your special needs? Call 800-336-4206 or visit [www.edwardssignaling.com](http://www.edwardssignaling.com). We've got an entire company committed to listening. And making audible signaling clearer and more useful every day.



## Table of Contents

1

**Electronic Signals**  
PAGES 04-17

2

**Bells**  
PAGES 18-27

3

**Buzzers**  
PAGES 28-35

4

**Horns**  
PAGES 36-43

5

**Sirens**  
PAGES 44-47

6

**Outdoor Warning Systems**  
PAGES 48-57

7

**Principles of Sound & Nomograph**  
PAGES 58-59

8

**Ordering Information**  
PAGES 60-63



# 1



## Electronic Signals – Sound Performers

Your facilities weren't built for a certain type of signal, so we built electronic signals to suit every facility. Loud, louder and always clearer, Edwards has signals that fit anywhere, communicate every way and can be powered by just about any infrastructure's existing electrical system. So one hazard you never need to worry about is finding the perfect signal as long as it's from Edwards.

For Electronic Signals Ordering Info See Page

62-63



## Duotronic® Horns & Sirens

### High dB, Electronic Sound 5520 & 5520D Series



**Approvals:** UL 464 Listed, FM Approved Audible Notification Appliances Standard 3151-3152

**Tech Info:**

dB @ 10 ft: 114 (Horn), 112 (Siren)

Horn frequency: 1.1 KHz

Siren frequency: From 600 to 1300 Hz every 3 seconds

The 5520 and 5520D Series are low current, high performance, high decibel signals which may be coded or used as continuous alarms. They convert to a horn or siren via an internal, tamper-proof switch. The 5520 weatherproofs by adding 349 back box. The 5520D is diode polarized and is primarily for use in electrical supervision of signaling circuit field wiring, but also for unsupervised applications. Speaker swivels 180° horizontally and 90° vertically.

| Cat. No.   | Volts                 | Amps         | VA            | dB at 10 ft (3.05m)    |
|------------|-----------------------|--------------|---------------|------------------------|
| 5520-AS    | 12V AC 60 Hz (12V DC) | 1.3 (.7 DC)  | 15.6 (8.4 DC) | 114 (Horn) 112 (Siren) |
| 5520-AQ    | 24V AC 60 Hz (24V DC) | .85 (.35 DC) | 20.4 (8.4 DC) | 114 (Horn) 112 (Siren) |
| 5520-N5    | 120V AC 60 Hz         | .35          | 42            | 114 (Horn) 112 (Siren) |
| 5520-P1    | 125V DC               | .1           | 12.5          | 114 (Horn) 112 (Siren) |
| 5520-R5*   | 240V AC 60 Hz         | .1           | 24.0          | 114 (Horn) 112 (Siren) |
| 5520D-N5** | 120V AC 50/60 Hz      | .35          | 42.0          | 114 (Horn) 112 (Siren) |
| 5520D-AW** | 20-24V DC             | .35          | 8.4           | 114 (Horn) 112 (Siren) |

\*Uses separately mounted 598Y Transformer \*\*Diode polarized for supervisory circuits

## Duotronic® Horn

### High dB, Electronic Sound 5521 Series



**Approvals:** UL 464 Listed, FM Approved Audible Notification Appliances Standard 3151-3152

**Tech Info:**

Electrical Rating: 250V DC, .065 Amps

dB @ 10 ft: 114 (Horn)

Horn frequency: 1.1 KHz

The 5521 is weatherproof as supplied. The speaker swivels 180° horizontally and 90° vertically.

Low current, high performance, high decibel signal which may be coded or used as continuous alarms.

| Cat. No. | Volts   | Amps | VA   | dB at 10 ft (3.05m) |
|----------|---------|------|------|---------------------|
| 5521-S1  | 250V DC | .065 | 16.3 | 114 (Horn only)     |

## Duotronic® Explosionproof Electronic Horns & Sirens

### Class I, Div. 1&2 5522M & 5523M Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C, and D hazardous locations, UL 464 and 1203 Listed

**Tech Info:**

dB @ 10 feet: 109 (horn), 105 (siren)

Frequency: 982 Hz (horn), Rises and falls between 600 and 1250 Hz (siren)

Explosionproof Duotronic Electronic 5522M Series Horns and 5523M Series Sirens create high decibel signals. The bracket attaches to about any surface and allows a 180° speaker swivel. Corrosion-resistant, electrostatic, heat-flowed, powder epoxy finish. A pre-fitted factory sealed 1/2" threaded nipple speeds installation.

| Cat. No. | Description | Volts            | Signal Off<br>Standby Current (Amps) | Signal On<br>Operating Current (Amps) | dB at<br>10 ft (3.05m) |
|----------|-------------|------------------|--------------------------------------|---------------------------------------|------------------------|
| 5522M-AQ | Horn        | 24V DC           | 0.061                                | 0.470                                 | 109                    |
|          |             | 24V AC 50/60 Hz  | 0.250                                | 1.32                                  | 109                    |
| 5522M-Y6 | Horn        | 120V AC 50/60 Hz | 0.088                                | 0.260                                 | 109                    |
|          |             | 240V AC 50/60 Hz | 0.091                                | 0.190                                 | 109                    |
|          |             | 125V DC          | 0.031                                | 0.130                                 | 109                    |
|          |             | 250V DC          | 0.019                                | 0.070                                 | 109                    |
| 5523M-AQ | Siren       | 24V DC           | 0.061                                | 0.470                                 | 105                    |
|          |             | 24V AC 50/60 Hz  | 0.250                                | 1.32                                  | 105                    |
| 5523M-Y6 | Siren       | 120V AC 50/60 Hz | 0.088                                | 0.260                                 | 105                    |
|          |             | 240V AC 50/60 Hz | 0.091                                | 0.190                                 | 105                    |
|          |             | 125V DC          | 0.031                                | 0.130                                 | 105                    |
|          |             | 250V DC          | 0.019                                | 0.070                                 | 105                    |

## Duotronic® Explosionproof Electronic Horns & Sirens

### Class I, Div. 1&2, Diode Polarized 5522MD & 5523MD Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C, and D hazardous locations, UL 464 and 1604 Listed

**Tech Info:**

Electrical Rating: 20-31V DC, 0.40 Amps

dB @ 10 ft.: 109 (horn), 105 (siren)

Frequency: 982 Hz (horn), Rises and falls between 600 and 1250 Hz (siren)

Diode polarized, explosionproof Duotronic Electronic 5522MD Series Horns and 5523MD Series Sirens work in electronically supervised circuits to provide high decibel alert or evacuation signaling in hazardous locations. The mounting bracket attaches to just about any surface and allow a full 180° speaker swivel. Corrosion-resistant electrostatic heat-flowed powder epoxy finish increases signal life and a pre-fitted factory sealed 1/2" threaded pipe nipple speeds installation.

| Cat. No.  | Description | Volts     | Signal Off<br>Standby Current (Amps) | Signal On<br>Operating Current (Amps) | dB at<br>10 ft (3.05m) |
|-----------|-------------|-----------|--------------------------------------|---------------------------------------|------------------------|
| 5522MD-AW | Horn        | 20-31V DC | 0.061                                | 0.400                                 | 109                    |
| 5523MD-AW | Siren       | 20-31V DC | 0.061                                | 0.400                                 | 105                    |

## Adaptatone® Division 2 Millennium Multiple Tone Signal

Class I, Div. 2, Single Output  
RS485 Activation  
5530M & 5530MV Series



**Approvals:** UL Listed for indoor/outdoor applications in Class I, Div. 2, Groups A, B, C & D; Class II, Div. 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604, Type 3R, cUL (select models), CE Marked, LV & EMC Directives (certain models)

**Tech Info:**

Electrical Rating: 24V DC, 0.64 Amps or 125V DC, 0.16 Amps or 250V DC, 0.08 Amps or 24V 50/60 Hz, 1.22 Amps or 120V 50/60 Hz, 0.24 Amps or 240V 50/60 Hz, 0.15 Amps dB @ 10 feet: up to 110 Tones: 27 Built-in Mounts on: 1/2" conduit or surface mounting

The 5530M and 5530MV multiple tone signals deliver volume-controllable signaling in industrial environments. A microprocessor creates 27 tones, selected by a dip switch. Activated via a PLC or normally open contacts. RS485 compatible models. Field-recordable voice is available. Speaker locks in any direction. 24V DC battery-backup terminals.

**Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No.            | Operating Voltage | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|---------------------|-------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5530M-24AQ          | 24V DC Only       | 2                                | 740                     | 8/4                                       |
| 5530M-24N5          | 120V 50/60 Hz     | 2                                | 360                     | 2.82/4                                    |
| 5530M-120N5         | 120V 50/60 Hz     | 5                                | 380                     | 2.82/4                                    |
| 24V DC Input Board  | 5V DC to 24V DC   | 2                                | 6                       | —                                         |
| 120V DC Input Board | 120V AC 50/60 Hz  | 5                                | 13                      | —                                         |

## Adaptatone® Division 2 Millennium Multiple Tone Signal

Class I, Div. 2, Single Output  
Diode Polarized  
5530MD-24AW



**Approvals:** UL Listed for indoor and outdoor applications in Class I, Division 2, Groups A, B, C, & D; Class II, Division 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604 Listed, Type 3R, IP 44, CSFM, CE Marked, ULC S525, TÜV Rheinland Certified

**Tech Info:**

Electrical Rating: 20-31V DC, 0.80 Amps  
dB @ 10 feet: up to 110  
Tone Capability: 27 Built-in  
Mounts on: 1/2" conduit or surface mounting

The heavy-duty Adaptatone Millennium 5530MD-24AW multiple tone signal is a volume-controlled industrial environment unit. It is diode polarized for fire alarm systems and other electrically supervised circuit field wiring applications. A microprocessor circuit creates the 27 distinctive tones, selected by a dip switch within the unit. The signals are activated via a fire/security panel, a PLC or normally open contacts. The speaker can be rotated and locked in any horizontal direction.



## Adaptatone® Division 2 Millennium Multiple Tone Signal

Class I, Div. 2, 30 Watt High Volume,  
Single Output, RS485 Activation  
**5530MHV Series**



**Approvals:** UL Listed for indoor & outdoor applications in Class I, Div. 2, Groups A, B, C, & D; Class II, Div. 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604 Listed, Type 3R, IP 44, cUL (select models), TÜV Rheinland Certified, CE Marked, LV & EMC Directives (certain models)

**Tech Info:**

Electrical Rating: 24V DC, 1.22 Amps or 125V DC, 0.37 Amps or 250V DC, 0.17 Amps or 24V 50/60 Hz, 2.21 Amps or 120V 50/60 Hz, 0.63 Amps or 240V 50/60 Hz, 0.30 Amps dB @ 10 feet: up to 113 Tones: 27 Built-in  
Mounts on: 1/2" conduit or surface mounting

The heavy-duty, high volume 5530MHV delivers volume-controllable tones at industrial sites. A microprocessor creates 27 tones, selected by a dip switch. Activated via a PLC or normally open contacts. RS485 models. Speaker locks in any position. 24V DC battery-backup terminals.

**Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No.            | Operating Voltage | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|---------------------|-------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5530MHV-24AQ        | 24V DC Only       | 2                                | 740                     | 8/4                                       |
| 24V DC Input Board  | 5V DC to 24V DC   | 2                                | 6                       | —                                         |
| 120V DC Input Board | 120V AC 50/60 Hz  | 5                                | 13                      | —                                         |

## Adaptatone® Division 2 Millennium Multiple Tone Signal

Class I, Div. 2, Four Outputs  
**5531M Series**



**Approvals:** UL Listed for indoor & outdoor applications in Class I, Div. 2, Groups A, B, C, & D; Class II, Div. 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604 Listed, Type 3R, IP 44, cUL (select models), CE Marked, LV & EMC Directives (certain models), TÜV Rheinland Certified

**Tech Info:**

Electrical Rating: 24V DC, 0.57 Amps or 125V DC, 0.15 Amps or 250V DC, 0.08 Amps or 24V 50/60 Hz, 0.98 Amps or 120V 50/60 Hz, 0.28 Amps or 240V 50/60 Hz, 0.15 Amps dB @ 10 feet: up to 110 Tones: 27 Built-in  
Mounts on: 1/2" conduit or surface mounting

The heavy-duty 5531M activates up to 4 tones for volume-controllable signaling. 27 tones created via microprocessor and selected by dip switch. Activates via a PLC or normally open contacts, with pyramid-type priority. Speaker locks in any position. Battery-backup terminals.

**Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No.            | Operating Voltage             | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|---------------------|-------------------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5531M-24AQ          | 24V DC Only                   | 2                                | 740                     | 8/4                                       |
| 5531M-24N5          | 120V 50/60 Hz                 | 2                                | 360                     | 2.82/4                                    |
| 5531M-120N5         | 120V 50/60 Hz                 | 5                                | 380                     | 2.82/4                                    |
| 24V DC Input Board  | 5V DC to 24 V DC (each input) | 2                                | 6                       | —                                         |
| 120V DC Input Board | 120V AC 50/60 Hz (each input) | 5                                | 13                      | —                                         |

## Adaptatone® Division 2 Millennium Multiple Tone Signal

Class I, Div. 2, 30 Watt High Volume, Four Outputs  
**5531MHV Series**



**Approvals:** UL Listed for indoor & outdoor applications in Class I, Div. 2, Groups A, B, C, & D; Class II, Div. 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604 Listed, Type 3R, IP 44, cUL (select models), CE Marked, LV & EMC Directives (certain models) TÜV Rheinland Certified

**Tech Info:**

Electrical Rating: 24V DC, 1.14 Amps or 125V DC, 0.31 Amps or 24V 50/60 Hz, 1.73 Amps or 120V 50/60 Hz, 0.47 Amps or 240V 50/60 Hz, 0.28 Amps  
dB @ 10 feet: up to 113 Tones: 27 Built-in  
Mounts on: 1/2" conduit or surface mounting

Heavy-duty 5531MHV high volume signal delivers up to 4 volume-controllable tones. Microprocessor creates 27 tones, with 4 selected through a dip switch. Operates on pyramid priority system. Activated via a PLC or normally open contacts. Speaker locks in any direction. Battery-backup terminals.

**Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No.           | Operating Voltage            | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|--------------------|------------------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5531MHV-24AQ       | 24V DC Only                  | 2                                | 1500                    | 8/4                                       |
| 24V DC Input Board | 5V DC to 24V DC (each input) | 2                                | 6                       | —                                         |

## Adaptatone® Division 2 Millennium Multiple Tone Signal

Class I, Div. 2, PLC Compatible, Voice Capability  
**5531MV Series**



**Approvals:** UL Listed for indoor and outdoor applications in Class I, Division 2, Groups A, B, C, & D; Class II, Division 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604 Listed, Type 3R, IP 44, cUL (select models)

**Tech Info:**

Electrical Rating: 120V 50/60 Hz, 0.23 Amps  
dB @ 10 feet: up to 110  
Tone Capability: 27 Built in, plus 20 seconds of field-recorded voice messages  
Mounts on: 1/2" conduit or surface mounting

The 5531MV delivers volume-controllable signaling and field-recorded voice. Microprocessors create 27 tones and store up to 20 seconds of voice. Select up to 4 tones/messages through a dip switch. Operates on a pyramid priority system. Activated via a PLC or normally open contacts. Speaker locks in any direction. Battery-backup terminals.

**Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No.            | Operating Voltage            | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/milliseconds |
|---------------------|------------------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5531MV-24N5         | 24V 50-60Hz                  | 2                                | 360                     | 2.82/4                                    |
| 5531MV-120N5        | 120V 50-60Hz                 | 5                                | 380                     | 2.82/4                                    |
| 24V DC Input Board  | 5V DC to 24V DC (each input) | 2                                | 6                       | —                                         |
| 120V AC Input Board | 120V AC 50-60Hz (each input) | 5                                | 13                      | —                                         |

## Adaptatone® Explosionproof Electronic Signals

Class I, Div. 1&2  
Explosionproof, Two Outputs  
5533M Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C, and D hazardous locations, UL 464 and 1203 Listed

**Tech Info:**

Electrical Rating: 24V DC, 0.47 Amps or 36V DC, 0.60 Amps or 125V DC, 0.13 Amps or 250V DC, 0.07 Amps or 24V 50/60 Hz, 1.32 Amps or 120V 50/60 Hz, 0.27 Amps or 240V 50/60 Hz, 0.19 Amps  
Tone Capability: 55 built-in

The heavy-duty explosionproof 5533M Adaptatone electronic signal produces high decibel, volume-controlled tones in industrial locations. Users can choose any two of the built-in 55 tones for use at any one time, using convenient miniature switches in the unit – and one tone can be assigned priority over the other. A volume control is also internal to the signal. The mounting bracket attaches to just about any surface and allows a full 180° speaker swivel. Corrosion-resistant, electrostatic heat-flowed powder epoxy finish covers a heavy-duty, zinc-cast construction, increasing signal life. A pre-fitted factory sealed 1/2" threaded pipe nipple speeds installation.

## Adaptatone® Explosionproof Electronic Signals

Class I, Div. 1&2, Explosionproof,  
Diode Polarized, Single Output  
5533MD Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C, and D hazardous locations, UL 464 and 1203 Listed

**Tech Info:**

Electrical Rating: 20-31V DC, 0.40 Amps  
Tone Capability: 55 built-in

The diode polarized, heavy-duty, explosionproof 5533MD Adaptatone electronic signal produces high decibel, volume-controlled tones in electronically supervised circuits. Users can choose any one of the built-in 55 tones for use at any one time, using a convenient miniature switch in the unit. A volume control is also internal to the signal. The mounting bracket attaches to just about any surface and allows a full 180° speaker swivel. Corrosion-resistant electrostatic heat-flowed powder epoxy finish covers a heavy-duty, zinc-cast construction, increasing signal life. A pre-fitted factory sealed 1/2" threaded pipe nipple speeds installation.



## Adaptatone® Division 2 Millennium Central Tone Generator

Class I, Div. 2, Synchronized System Signaling, Four Outputs, RS485 Activation Models  
**5540M Series**



**Approvals:** UL Listed for indoor & outdoor applications in Class I, Div. 2, Groups A, B, C & D; Class II, Div. 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604, Type 3R, IP 44, cUL (select models), TÜV Rheinland Certified, CE Marked – Cenelec LV & EMC Directives (select models), cUL Listed

### Tech Info:

Electrical Rating: 24V DC, 0.74 Amps or 125V DC, 0.21 Amps or 250V DC, 0.10 Amps or 24V 50/60 Hz, 1.3 Amps or 120V 50/60 Hz, 0.38 Amps or 240V 50/60 Hz, 0.20 Amps  
Tone Capability: 27 Built-in Mounts on: surface mounting

The 5540M delivers simultaneous, synchronized signaling of high decibel tones. A microprocessor creates 27 tones, and a volume control is included. Select up to 4 tones, operating on a pyramid-type priority system. Activated via a PLC or normally open contacts. RS485 models. Includes battery-backup terminals and short circuit protection.

### Signal Input Load Characteristics (PLC output to meet following product input parameters)

| Cat. No.            | Operating Voltage          | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|---------------------|----------------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5540M-24AQ          | 24V DC Only                | 2                                | 740                     | 8/4                                       |
| 5540M-24N5          | 120V 50/60 Hz              | 2                                | 360                     | 2.82/4                                    |
| 5540M-120N5         | 120V 50/60 Hz              | 5                                | 380                     | 2.82/4                                    |
| 5540M-24Y6          | 120V 50/60 Hz              | 2                                | 320                     | 2.82/4                                    |
| 5540M-120Y6         | 120V 50/60 Hz              | 5                                | 310                     | 2.82/4                                    |
| 24V DC Input Board  | 24V DC (each input)        | 2                                | 6                       | —                                         |
| 120V DC Input Board | 120V AC 60 Hz (each input) | 5                                | 13                      | —                                         |

## Adaptatone® Division 2 Millennium Central Tone Generator

Class I, Div. 2, Synchronized System Signaling, Voice Messaging, Four Outputs, RS485 Activation  
**5540MV Series**



**Approvals:** UL Listed for indoor & outdoor applications in Class I, Div. 2, Groups A, B, C & D; Class II, Div. 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604, Type 3R, IP 44, cUL, CE Marked – Cenelec LV & EMC Directives, cUL Listed

### Tech Info:

Electrical Rating: 125V DC, 0.21 Amps or 250V DC, 0.10 Amps or 120V 50/60 Hz, 0.36 Amps or 240V 50/60 Hz, 0.2 Amps  
Tone Capability: 27 Built-in, plus 20 seconds of field-recorded voice messages Mounts on: surface mounting

The 5540MV delivers simultaneous, synchronized signaling of high decibel tones and pre-recorded voice. Microprocessor creates 27 tones. Includes volume control. Select up to 4 tones/voice messages, operating on a pyramid priority system. Activated via a PLC or normally open contacts. RS485 models available. Battery-backup terminals, short circuit protection and Pre-signal tone option.

### Signal Input Load Characteristics (PLC output to meet following product input parameters)

| Cat. No.           | Operating Voltage | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|--------------------|-------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5540MV-24AQ        | 120V 50/60 Hz     | 2                                | 360                     | 2.82/4                                    |
| 5540MV-24Y6        | 120V 50/60 Hz     | 2                                | 320                     | 2.82/4                                    |
| 24V DC Input Board | 24V DC            | 2                                | 6                       | —                                         |

## Adaptatone® Division 2 Millennium Central Tone Generator

Class I, Div. 2, Synchronized  
System Signaling & Paging,  
Three Outputs + Paging  
**5540MP Series**



**Approvals:** UL Listed for indoor/outdoor applications in Class I, Div. 2, Groups A, B, C & D; Class II, Div. 2, Groups F & G; and Class III hazardous locations, UL 464 & 1604 Listed, Type 3R, IP 44, cUL

### Tech Info:

Electrical Rating: 125V DC, 0.21 Amps or 250V DC, 0.10 Amps or 120V 50/60 Hz, 0.32 Amps or 240V 50/60 Hz, 0.20 Amps Tones: 27 Built-in Paging: Built-in Mounts on: surface

The 5540MP central tone generator delivers simultaneous signaling of high decibel tones and, when used with the 5542RPU Remote Paging Unit, voice paging. It synchronizes signaling to speakers and amplifiers for uniform communication and priority tone selection. Microprocessor creates 27 tones. Includes volume control. Up to 3 tones can be used at once, with pyramid priority system and paging priority. Activated via a PLC or normally open contacts. Battery-backup terminals, short circuit protection.

### Signal Input Load Characteristics

| Cat. No.     | Operating Voltage | Input Card Activation Voltage | Signal Off Standby Current (Amps) | Signal On Operating Current (Amps) |
|--------------|-------------------|-------------------------------|-----------------------------------|------------------------------------|
| 5540MP-24Y6* | 120V AC 50/60 Hz  | 24V DC                        | 0.10                              | 0.32                               |
|              | 240V AC 50/60 Hz  | 24V DC                        | 0.10                              | 0.20                               |
|              | 125V DC           | 24V DC                        | 0.10                              | 0.21                               |
|              | 250V DC           | 24V DC                        | 0.02                              | 0.10                               |

\* Must be connected to 5542RPU to operate.

## Adaptatone® Millennium System Master

Evacuation & Plant-wide  
Signaling, RS485 Activation  
**5541M Series**



**Approvals:** OSHA approved, UL 2017 Listed for Emergency Self Monitored Use, UL 864 and UL 1711 Listed

### Tech Info:

4 zone control with paging, audio, voice & power supervision, microphone & external input supervision, activates LED text displays, up to 64 satellite units addressable through RS485, up to 25 multiple 5542 RPU's input, PBX/TAMB phone input, output and trouble relays designed for fail-safe

A fully supervised personnel notification control system for emergency evacuation, process control and plant-wide signaling. Ties into existing fire alarm systems. Programming and operation by keypad and LCD display, also handles zone reconfiguration. Remote programming software is available. 68 tones, microphone, and field-recordable message capability. Up to 200 speakers. PBX phone paging. Meets OSHA self-monitoring, prioritization and standby power requirements, and UL standards. MEDI compatible.

### Signal Input Load Characteristics

| Cat. No. | Operating Voltage | Signal Off Standby Current (Amps) | Signal On Operating Current (Amps) |
|----------|-------------------|-----------------------------------|------------------------------------|
| 5541M-Y6 | 120V AC 60 Hz     | .14                               | .37                                |
|          | 240V AC 50 Hz     | .10                               | .22                                |

## Adaptatone® Millennium Remote Paging Unit

### System Wide Paging 5542RPU



**Approvals:** UL 464 Listed, cUL, Indoor Type 2 enclosure when flush wall mounted, Indoor Type 12 or 2 when mounted to outdoor listed, 4" (102mm) square utility box, Outdoor Type 3R and indoor Type 12 or 2 when mounted with 5542WPK to outdoor, listed 4" (102mm) square utility box

#### Info:

The 5542RPU Remote Paging Unit sends audio page to, and is powered by, the 5540MP-24Y6. Input from a microphone input or audio pair signal source such as phone PBX. Options include a hand-held microphone, desktop microphone, weatherproof mounting kit and system override relay.

## Adaptatone® Division 2 Millennium Remote Speaker/Amp

### Class I, Div. 2, System Speaker Operation, RS485 Activation 5532M & 5532MD Series



**Approvals:** UL Listed for indoor and outdoor applications in Class I, Div. 2, Groups A, B, C, & D; Class II, Div. 2, Groups F & G; and Class III hazardous locations, UL 464 and 1604 Listed, Type 3R, IP 44, cUL, CE Marked, LV & EMC Directives (certain models), TÜV Rheinland Certified

#### Tech Info:

Electrical Rating: 20-24V DC, 0.64 Amps or 24V DC, 0.64 Amps or 125V DC, 0.15 Amps or 250V DC, 0.08 Amps or 24V 50/60 Hz, 1.22 Amps or 120V 50/60 Hz, 0.28 Amps or 240V 50/60 Hz, 0.15 Amps  
dB @ 10 feet: 110  
Mounts on: 1/2" conduit or surface mounting

The Adaptatone 5532M and 5532MD (Diode Polarized for use in electrically supervised systems) remote speaker/amplifiers produce high decibel, volume-controlled tones when connected to the 5540M Central Tone Generator or the 5541M System Master Panel. Operating each speaker/amplifier from a local power source gives users the flexibility to use the most convenient voltage available at each location. An RS485 model is available and a volume control is also internal to all signal models. The fixture attaches to just about any surface and allows a full 180° speaker swivel. Corrosion-resistant electrostatic heat-flowed powder epoxy finish increases signal life. 24V DC battery backup terminals are standard.



## Adaptatone® Division 2 Millennium Remote Speaker/Amp

Class I, Div. 2, High Volume  
System Speaker Operation,  
RS485 Activation  
5532MHV Series



**Approvals:** UL Listed for indoor and outdoor applications in Class I, Div. 2, Groups A, B, C, & D; Class II, Div. 2, Groups F & G; and Class III hazardous locations, UL 464 and 1604 Listed, Type 3R, IP 44, cUL, CE Marked, LV & EMC Directives (certain models), TÜV Rheinland Certified

**Tech Info:**

Electrical Rating: 24V DC, 1.22 Amps or 125V DC, 0.32 Amps or 250V DC, 0.15 Amps or 24V 50/60 Hz, 2.21 Amps or 120V 50/60 Hz, 0.48 Amps or 240V 50/60 Hz, 0.28 Amps dB @ 10 feet: up to 113

Mounts on: 1/2" conduit or surface mounting

The high volume Adaptatone 5532MHV remote speaker/amplifier produces high decibel, volume-controlled tones when connected to the 5540M Central Tone Generator or the 5541M System Master Panel. Operating each speaker/amplifier from a local power source gives users the flexibility to use the most convenient voltage available at each location. An RS485 model is available and a volume control is also internal to all signal models. The fixture attaches to just about any surface and allows for a full 180° speaker swivel. Corrosion-resistant electrostatic heat-flowed powder epoxy finish increases signal life. 24V DC battery-backup terminals are standard.

## Adaptatone® Explosionproof Remote Speaker/Amp

Class I, Div. 1&2  
5545M Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C, and D hazardous locations, UL 464 and 1203 Listed

**Tech Info:**

Electrical Rating: 24V DC, 0.47 Amps or 125V DC, 0.13 Amps or 250V DC, 0.07 Amps or 24V 50/60 Hz, 1.32 Amps or 120V 50/60 Hz, 0.26 Amps or 240V 50/60 Hz, 0.19 Amps

The heavy-duty explosionproof 5545M Adaptatone remote speaker/amplifier produces high decibel, volume-controlled tones when connected to the 5540M Central Tone Generator or the 5541M System Master Panel. Operating each speaker/amplifier from a local power source gives users the flexibility to use the most convenient voltage available at each location. A volume control is also internal to the signal. The mounting bracket attaches to just about any surface and allows a full 180° speaker swivel. Corrosion-resistant electrostatic heat-flowed powder epoxy finish covers a heavy-duty, zinc-cast construction, increasing signal life. A pre-fitted factory sealed 1/2" threaded pipe nipple speeds installation.

## Adaptatone® Division 2 Millennium Local/System Signal

### Class I, Div. 2, Three Outputs & Priority 5536M Series



**Approvals:** UL & cUL Listed for indoor & outdoor applications in Class I, Division 2, Groups A, B, C & D; Class II, Division 2, Groups F & G; and Class III Hazardous Location applications, UL 464 and 1604 Listed, Type 3R, IP 44, CE Marked, LV & EMC Directives, TÜV Rheinland Certified

#### Tech Info:

Electrical Rating: 24V DC, 0.64 Amps or 125V DC, 0.15 Amps or 250V DC, 0.77 Amps or 24V 50/60 Hz, 1.22 Amps or 120V 50/60 Hz, 0.28 Amps or 240V 50/60 Hz, 0.15 Amps dB @ 10 feet: up to 110

Tones: 27 Built-in Mounts on: 1/2" conduit or surface

The 5536M delivers up to 3 tones for local volume-controllable signaling. It also works in Adaptatone Systems, sounding the central signal or its own tone. Signals activated via a PLC or normally open contacts. Pyramid-type priority system and one designated priority signal. If part of an Adaptatone System, unit has priority.

#### Signal Input Load Characteristics (PLC output to meet following product input parameters)

| Cat. No.           | Operating Voltage            | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|--------------------|------------------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5536M-24AQ         | 24V DC Only                  | 2                                | 740                     | 8/4                                       |
| 5536M-24N5         | 120V 50/60 Hz                | 2                                | 360                     | 2.82/4                                    |
| 24V DC Input Board | 5V DC to 24V DC (each input) | 2                                | 6                       | —                                         |

## Adaptatone® Division 2 Millennium Local/System Signal

### Class I, Div. 2, 30 Watt, High Volume, Three Outputs & Priority 5536MHV Series



**Approvals:** UL & cUL Listed for indoor & outdoor applications in Class I, Division 2, Groups A, B, C & D; Class II, Division 2, Groups F & G; and Class III Hazardous Locations, UL 464 and 1604 Listed, Type 3R, IP 44, cUL, CE Marked, LV & EMC Directives (certain models), TÜV Rheinland Certified

#### Tech Info:

Electrical Rating: 24V DC, 1.14 Amps or 125V DC, 0.34 Amps or 250V DC, 0.17 Amps or 24V 50/60 Hz, 1.73 Amps or 120V 50/60 Hz, 0.53 Amps or 240V 50/60 Hz, 0.30 Amps dB @ 10 feet: up to 113

Tones: 27 Built-in Mounts on: 1/2" conduit or surface

High volume 5536MHV delivers up to 3 tones for local volume-controllable signaling. Also works in Adaptatone Systems, sounding the central signal or its own. Signals activated via PLC or normally open contacts. Pyramid-type priority system and one designated priority input. If part of an Adaptatone System, unit has priority.

#### Signal Input Load Characteristics (PLC output to meet following product input parameters)

| Cat. No.                   | Operating Voltage            | Max. off state leak current (mA) | Continuous Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|----------------------------|------------------------------|----------------------------------|-------------------------|-------------------------------------------|
| 5536MHV-24AQ               | 24V DC Only                  | 2                                | 1500                    | 8/4                                       |
| 24V DC Input Board Circuit | 5V DC to 24V DC (each input) | 2                                | 6                       | —                                         |

# Adaptatone® Remote Amplifier and Audio Signal Converter

## 5535 & 5510M Series



**Approvals:** UL 464 Listed, Type 3R, IP 44

### Tech Info:

Electrical Rating: 120V AC 50/60 Hz, 0.310 Amps or 125V DC, 0.15 Amps or 250V DC, 0.77 Amps or 120V AC 50/60 Hz, 0.24 Amps or 240V AC 50/60 Hz, 0.15 Amps  
Mounts on: 1/2" conduit or surface mounting

The 5535 Remote Amplifier powers remote speakers in Adaptatone system operation. Output is 70V line with a maximum of 15 watts. 5510M Audio Signal Converters allows signaling flexibility by integrating Adaptatone signals into installed paging systems. The 5510M-25Y6 converts 25V RMS input to 10 VRMS output. The 5510M-70Y6 converts 70V RMS input to 10V RMS output. All are weatherproof, with a corrosion-resistant, electrostatic-flashed, epoxy finish over heavy-duty, cast zinc. 24V DC battery backup terminals provided.

| Cat. No.   | Volts            | Standby Current<br>(Signal Off) | Operating Current<br>(Signal On) |
|------------|------------------|---------------------------------|----------------------------------|
| 5535-N5    | 120V AC 50/60 Hz | 0.110A                          | 0.310A                           |
| 5510M-25Y6 | 125V DC          | 0.10A                           | 0.15A                            |
| 5510M-70Y6 | 250V DC          | 0.10A                           | 0.77A                            |
|            | 120V AC 50/60 Hz | 0.10A                           | 0.24A                            |
|            | 240V AC 50/60 Hz | 0.10A                           | 0.15A                            |

## Reentrant Speaker

### Multi-Power Taps 2W, 4W, 8W, 15W 5547-15W



**Approvals:** UL 1480 Listed

### Tech Info:

Electrical Rating: 70V RMS  
dB @ 10 ft: 90 (at 2W), 93 (at 2W), 96 (at 2W), 99 (at 2W)  
(in a reverberant room using 400-4000 Hz band limited pink noise per UL 1480)

Four power taps - 2W, 4W, 8W and 15W

Frequency: 400-4,000 Hz,

Mounts on: surface mounts

The 5547 reentrant speaker is a low power consumption, multi-watt power selection, and high sound level output speaker. It surface mounts with Cat. No. 5549 Surface Backbox and weatherproof mounts with Cat. No. 5548 Weatherproof Backbox. Primarily for use with the 5535 Remote Amplifier in general utility signaling applications. Fungus and moisture resistant, with a baked epoxy finish.

### Sound Pressure Level\*

| Cat. No. | Input Voltage | 2W     | 4W     | 8W     | 15W    |
|----------|---------------|--------|--------|--------|--------|
| 5547-15W | 70V           | 90 dBA | 93 dBA | 96 dBA | 99 dBA |

\*At 10 feet (3.05m) in a reverberant room using 400-4000 Hz band limited pink noise per UL 1480

## Cone speaker

Multi-power Taps  
2.5W, .5W, 1W & 2W  
**5551B-2W**



**Approvals:** UL 1480 Listed for use in fire alarm or emergency communication systems installed in accordance with NFPA 72 National Fire Alarm Code

**Tech Info:**

Electrical Rating: 70V RMS

dB @ 10 ft: 75 (at .25W), 81 (at .50W), 84 (at 1.0W), 87 (at 2.0W) (in a reverberant room using 400-4000 Hz band limited pink noise per UL 1480)

Mounts on: 4" square backbox with extension ring

Four power taps - .25W, .5W, 1.0W and 2.0W, 70V RMS

5551B-2W speakers are voice/tone notification appliances for indoor ceiling or wall mounting with low power consumption, multi-watt power selection, and high sound level output. Mounts on 4" square backbox with extension ring. Primarily for use with the 5535 Remote Amplifier. May be used for fire alarm applications with compatible fire alarm control panels. Consult installation instructions supplied with the control panel. Wall or ceiling mount. Fire retardant and moisture proof.

## Millennium Mini-Mi™ Type 3R Voice & Tone Generator

Type 3R, RS485 Activation,  
Diode Polarized Models  
**5560M Series**



**Approvals:** UL 464 and 1604 Listed, Type 3R, UL 1971 (certain models)

**Tech Info:**

Electrical Rating: 16-33V DC, 0.13 Amps, 24V DC, 0.070 Amps or 24V 50/60 Hz, 0.16 Amps or 120V 50/60 Hz, 0.088 Amps

dB @ 10 ft: up to 97

Tone Capability: 55 Built-in, plus up to 20 seconds of field-recorded voice

Mounts on: Standard 4" backbox

The 5560M Millennium Mini-Mi is a compact tone and voice generator with a modular design that allows custom configuration to meet precise signaling needs. It is available with or without a 110 candela strobe. Mini-Mi can be configured as a stand-alone signal with tone or tone/voice operation, as part of an RS485 network, or as a standard system speaker/amplifier. Diode polarized models are available for fire alarm and other supervised circuits. 10, 25 or 70.7VRMS audio input boards are available. Mini-Mi's 55 distinctive tones are selected for one-at-a-time operation through a dip switch within the unit. Signals can also be activated via a PLC or normally open contacts. Units feature an internal volume control and rugged, weatherproof Lexan® construction.

Lexan is a registered trademark of General Electric Company.



# 2



## Bells – Edwards quality has a nice ring to it

Just because bells have been a signaling standby for hundreds of years, don't be fooled into thinking they're low tech. Edwards crisp-ringing bells are the output device for some of the world's most sophisticated communications systems. They ring loud and true, whether connected to a simple fire alarm or a hazardous production facility.

For Bells Ordering Info See Page

60-62

## Adaptabel® AC Single Stroke Bells

PLC Compatible  
332 Series



**Approvals:** UL 464 Listed, FM Listed

**Tech Info:** Electrical Rating: 24V, 50/60 Hz, 0.50 Amps (4" and 6" gongs) or 24V, 50/60 Hz, 0.70 Amps (10" gong), or 120V AC 50/60 Hz, 0.10 Amps (4" and 6" gongs) or 120V AC 50/60 Hz, 0.14 Amps (10" gong) or 240V AC, 50/60 Hz, .05 Amps (6" gong)

Sizes: 4", 6" and 10" gongs

dB @ 10 feet: 84 (4" gong), 86 (6" gong), 92 (10" gong)

Adaptabel single stroke bells produce a single, clearly defined note. Coded, intermittent current, like momentary initiating contacts, causes repeated striking. Rated 400 hours at 50% duty cycle. Self-compensating solenoid plunger. Corrosion-resistant, heat-flowed epoxy finish. Dustproof. Shockproof, die-cast housing. Completely assembled, hardware supplied. Universal Adaptaplate® mounts directly on surface. Also mounts directly on boxes.

| Cat No.*   | Volts            | Amps | VA   | dB at 1m/10 ft |
|------------|------------------|------|------|----------------|
| 332-4G5    | 24V AC 50/60 Hz  | 0.50 | 12   | 90/84          |
| 332-4N5    | 120V AC 50/60 Hz | 0.10 | 12   | 90/84          |
| 332-6G5    | 24V AC 50/60 Hz  | 0.50 | 12   | 92/86          |
| 332-6N5**  | 120V AC 50/60 Hz | 0.10 | 12   | 92/86          |
| 332-6R5    | 240V AC 50/60 Hz | 0.05 | 12   | 92/86          |
| 332-10G5   | 24V AC 50/60 Hz  | 0.70 | 16.8 | 98/92          |
| 332-10N5** | 120V AC 50/60 Hz | 0.14 | 16.8 | 98/92          |

\*Number following hyphen in Cat. No. denotes gong size in inches.

\*\* Diode Polarized models. Add "-R" for red.

## Adaptabel® DC Single Stroke Bells

PLC Compatible  
333 Series



**Approvals:** UL 464 Listed

**Tech Info:**

Electrical Rating: 4" gong: 24V DC, 0.30 Amps

6" gong: 12V DC, 0.60 Amps or 24V DC, 0.30 Amps or 125V DC, 0.06 Amps; 10" gong: 24V DC, 0.30 Amps or 125V DC, 0.06 Amps

Sizes: 4", 6" and 10" gongs

dB @ 10 ft: 84 (4" gong), 86 (6" gong), 92 (10" gong)

Mounts on: surface or electrical box

Adaptabel single stroke bells create a single note; the striker hitting the gong once. Coded, intermittent current, like momentary initiating contacts, causes repeated striking. Universal Adaptaplate® mounts directly on surface or on electrical boxes. Available with full cast grids and protective grilles.

| Cat No.* | Volts | Amps | VA  | dB at 1m/10 ft | DC Coil Res (Ohms) |
|----------|-------|------|-----|----------------|--------------------|
| 333-4G1  | 24    | 0.30 | 7.2 | 90 / 84        | 73                 |
| 333-6E1  | 12    | 0.60 | 7.2 | 92 / 86        | 18                 |
| 333-6G1  | 24    | 0.30 | 7.2 | 92 / 86        | 73                 |
| 333-6P1  | 125   | 0.06 | 7.5 | 92 / 86        | 1870               |
| 333-10G1 | 24    | 0.30 | 7.2 | 98 / 92        | 73                 |
| 333-10P1 | 125   | 0.06 | 7.5 | 98 / 92        | 1870               |

\*Gong Size in inches denoted by suffix in catalog number.

## Adaptabel® AC Vibrating Bells

PLC Compatible  
340 Series



**Approvals:** UL 464 Listed, FM Listed, CSFM Certified

**Tech Info:**

Electrical Rating: 4" gong: 12V, 0.620 Amps or 16V, .460 Amps or 24V, .310 Amps or 120V, .062 Amps or 240V, .031 Amps, 6" gong: 12V, 0.700 Amps or 16V, 0.500 Amps or 24V, 0.350 Amps or 120V, 0.070 Amps or 240V, 0.035 Amps, 10" gong: 24V, 0.350 Amps or 120V, 0.070 Amps or 240V, 0.350 Amps

Sizes: 4", 6" and 10" gongs

dB @ 10 ft: 88 (4" gong), 92 (6" gong), 96 (10" gong)

A continuous ringing sound is produced by the striker hitting the gong rapidly as long as current is applied. Weatherproofs via appropriate back box. Completely assembled, all hardware supplied. Shockproof die cast housing, dustproof. Self-compensating solenoid plunger. Rated 400 hours at 50% duty cycle. Corrosion resistant heat-flowed epoxy finish. Universal Adaptaplate® mounts directly on surface or fits any single-gang box, 3 1/4" (83 mm), 3 1/2" (89 mm), or 4" (102 mm) octagon box, or any plaster cover with mounting holes on 2 3/4" (70 mm) centers. 6" and 10" bells also mount on 4" (102 mm) square boxes. For timing, scheduling, paging and general alarm applications. 4" (102 mm) sizes for quiet areas. 6" (152 mm) sizes for moderate noise areas. 10" (254 mm) sizes for loud areas. Available with full cast grids and protective grilles.

## Adaptabel® DC Vibrating Bells

PLC Compatible  
435 Series



**Approvals:** UL 464 Listed

**Tech Info:**

Electrical Rating: 4" gong: 6V, 0.250 Amps or 12V, 0.125 Amps or 24V, 0.062 Amps or 32V, 0.047 Amps or 125V 0.012 Amps 6" gong: 6V, 0.250 Amps or 12V, 0.125 Amps or 24V, 0.062 Amps or 32V, 0.047 Amps or 48V, 0.031 Amps or 125V, 0.012 Amps or 250V 0.008 Amps 8" gong: 6V, 0.250 Amps or 12V, 0.125 Amps or 24V, 0.062 Amps or 125V, 0.012 Amps 10" gong: 12V, 0.125 Amps or 24V, 0.062 Amps or 125V, 0.012 Amps or 250V, 0.008 Amps

Sizes: 4", 6", 8" and 10" gongs

dB @ 10 ft: 90 (4" gong), 92 (6" gong), 93 (8" gong), 94 (10" gong) (except 250V model: 90 dB)

A continuous ringing sound is produced as the striker continues to strike the gong in rapid-fire action as long as current is applied. Universal Adaptaplate® mounts directly on surface or fits any single gang box, 3 1/4" (83mm), 3 1/2" (89mm), or 4" (102mm) octagon box, or any plaster cover with mounting holes on 2 3/4" (70mm) centers. 6" and 10" bells also mount on 4" (102mm) square boxes. Universal Adaptaplate mounts directly on surface or electrical box. Weatherproof by adding Cat. No. 449 back box.



## Adaptabel® Explosionproof AC Single Stroke Bells

Class I, Div. 1&2, Type 4  
332EX Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C and D; Class II, Division 1 and 2, Groups E, F and G; and Class III, UL 1203 Listed, Type 4

**Tech Info:**

Electrical Rating: 24V 50/60 Hz, 3.40 Amps or 120V 50/60 Hz, 0.43 Amps or 240V 50/60 Hz, 0.20 Amps  
 Sizes: 6" and 10" gongs  
 dB @ 10 feet: 86 (6" gong) & 94 (10" gong)  
 Mounts on: any solid surface

Explosionproof Adaptabel AC single stroke bells produce a distinctive, loud and clear individual note that is free of mechanical clatter. The striker hits the gong once whenever current is applied. Current may be coded to cause the striker to hit the gong intermittently. Units feature low power drain for efficient operation over long runs. They come completely assembled and feature an adjustment-free, self-compensating plunger. The weatherproof bells have a corrosion resistant finish and include a sealing fitting for 3/4" conduit and wire leads for power connections.

## Adaptabel® Explosionproof DC Single Stroke Bells

Class I, Div. 1&2, Type 4  
333EX Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C and D; Class II, Division 1 and 2, Groups E, F and G; and Class III, UL 1203 Listed, Type 4

**Tech Info:**

Electrical Rating: 24V DC, 3.50 Amps or 125V DC, 0.52 Amps  
 Sizes: 6" and 10" gongs  
 dB @ 10 feet: 86 (6" gong) & 94 (10" gong)  
 Mounts on: any solid surface

Explosionproof, hazardous location Adaptabel DC single stroke bells produce a distinctive, loud and clear individual note that is free of mechanical clatter. The striker hits the gong once whenever current is applied. Current may be coded to cause the striker to hit the gong intermittently. Units feature low power drain for efficient operation over long runs. They come completely assembled and feature an adjustment-free, self-compensating plunger. The weatherproof bells have a corrosion resistant finish and include a sealing fitting for 3/4" conduit and wire leads for power connections.



## Adaptabel® Explosionproof AC Vibrating Bells

Class I, Div. 1&2, Type 4  
340EX Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C and D; Class II, Division 1 and 2, Groups E, F and G; and Class III, UL 1203 Listed, Type 4

**Tech Info:**

Electrical Rating: 24V 50/60 Hz, 0.21 or 120V 50/60 Hz, 0.041 Amps or 240V 50/60 Hz, 0.021 Amps

Sizes: 6", 8" and 10" gongs

dB @ 10 feet: 84 (6" gong), 89 (8" gong) & 88 (10" gong)

Mounts on: any solid surface

Explosionproof Adaptabel AC vibrating bells produce a distinctive, loud and clear ringing that is free of mechanical clatter. The striker hits the gong in continuous, rapid-fire action as long as current is applied. The bells' low power drain makes for efficient operation over long runs. They come completely assembled and feature an adjustment-free, self-compensating plunger. These Type 4 bells have a corrosion-resistant finish and include a sealing fitting for 3/4" conduit and wire leads for power connections in hazardous locations.

## Adaptabel® Explosionproof DC Vibrating Bells

Class I, Div. 1&2, Type 4  
435EX Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C and D; Class II, Division 1 and 2, Groups E, F and G; and Class III, UL 1203 Listed, Type 4

**Tech Info:**

Electrical Rating: 6V DC, 1.52 Amps or 12V DC, 0.52 Amps or 24V DC, 0.29 Amps or 48V DC, 0.11 Amps or 125V DC, 0.04 Amps or 250V DC, 0.023 Amps

Sizes: 6", 8" and 10" gongs

dB @ 10 feet: 83 (6" gong), 86 (8" gong), 89 (10" gong)

Mounts on: any solid surface

Explosionproof Adaptabel DC vibrating bells produce a distinctive, loud and clear ringing that is free of mechanical clatter. The striker hits the gong in continuous, rapid-fire action as long as current is applied. The bells' low power drain makes for efficient operation over long runs. They come completely assembled and feature an adjustment-free, self-compensating plunger. These Type 4 bells have a corrosion-resistant finish and include a sealing fitting for 3/4" conduit and wire leads for power connections in hazardous locations. Diode polarized versions available.

## Adaptabel® Explosionproof DC Fire Alarm Bells

Class I, Div. 1&2, Explosionproof  
439DEX Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C and D; Class II, Division 1 and 2, Groups E, F and G; and Class III, UL 1203 Listed, CSFM Listed

**Tech Info:**

Electrical Rating: 20-24V DC, 0.24 Amps

Sizes: 6", 8" and 10" gongs

dB @ 10 feet: 83 (6" gong), 86 (8" gong) & 89 (10" gong)

Mounts on: any solid surface

Adaptabel explosionproof fire alarm bells produce a distinctive, loud and clear ringing that is free of mechanical clatter. The vibrating bells' striker hits the gong in continuous, rapid-fire action as long as current is applied. The bells' low power drain makes for efficient operation over long runs and they are diode polarized for use in fire alarm and in electrically supervised circuits. They come completely assembled and feature an adjustment-free, self-compensating plunger. The bells have a corrosion-resistant red epoxy finish and include a sealing fitting for 3/4" conduit and wire leads for power connections in hazardous locations.

## General Purpose Miniature Bells

AC and DC Models  
13 Series



**Tech Info:** Electrical Rating: 1" gong: 5-10 DC, 0.35 Amps or 24V DC, 0.20 Amps or 6-12V AC, 0.50 Amps or 24V AC, 0.20 Amps, 2" gong: 5-10V DC, 0.40 Amps or 6-12V AC, 0.50 Amps or 24V DC, 0.25 Amps or 24V AC, 0.25 Amps 3" gong: 5-10V DC, 0.60 Amps or 6-12V AC, 0.40 Amps or 24V DC, 0.25 Amps or 24V AC, 0.25 Amps  
dB @ 10 feet: 64 (1" gong), 65 (2" gong), 67 (3" gong)

Compact size and pleasant sound for offices, apartment houses, intercom and phone signaling, machinery and other OEM uses. Suitable for AC powered security systems with battery standby. Long life. Dust proof covers. Adjustable volume. Grounded frame. External binding posts. Chrome plate finish.

| Cat. No. | Size | Volts    | Amps | VA  | DC Coil Res. (Ohms) | dB at 1m/10 ft |
|----------|------|----------|------|-----|---------------------|----------------|
| 13-1AB   | 1"   | 5-10V DC | 0.35 | 2.0 | 10                  | 70 / 64        |
|          |      | 6-12V AC | 0.50 | 4.0 | 10                  |                |
| 13-1G1   |      | 24V DC   | 0.20 | 4.8 | 120                 |                |
| 13-1G5   |      | 24V AC   | 0.20 | 4.8 | 85                  | 71 / 65        |
| 13-2AB   | 2"   | 5-10V DC | 0.40 | 2.5 | 8                   |                |
|          |      | 6-12V AC | 0.50 | 4.0 | 8                   |                |
| 13-2G1   |      | 24V DC   | 0.25 | 6.0 | 90                  |                |
| 13-2G5   |      | 24V AC   | 0.25 | 6.0 | 56                  | 73 / 67        |
| 13-3AB   | 3"   | 5-10V DC | 0.60 | 3.5 | 5                   |                |
|          |      | 6-12V AC | 0.40 | 3.5 | 5                   |                |
| 13-3G1   |      | 24V DC   | 0.25 | 6   | 44                  |                |
| 13-3G5   |      | 24V AC   | 0.25 | 6   | 30                  |                |

## General Purpose Bells

### AC and DC Models 55 Series



#### Tech Info:

Electrical Rating: 4" gong: 6V DC, 0.85 Amps or 8V AC, 1.10 Amps or 24V AC, 0.20 Amps, 6" gong: 6V DC, 0.80 Amps, 8V AC, 1.00 Amps or 24V AC, 0.20 Amps

Sizes: 4" and 6" gongs

dB @ 10 feet: 68 (4" gong), 74 (6" gong)

Economy single magnet bell. Exposed striker, vibrating bell comes with an enclosed grounded terminal and case. For low-cost, light-duty installations in factories, institutions, offices, and OEMs. Used as doorbells, extension signals, warning bells, and audible annunciators. Ideal for AC security systems with battery backup. 4" and 6" gong sizes. AC and DC Models. Low Voltage. Gray finish. Low current drain permits long wire runs.

| Cat No. | Size | Volts  | Amps  | VA  | DC Coil Res (ohms) | dB at 1m/10 ft. |
|---------|------|--------|-------|-----|--------------------|-----------------|
| 55-4AM  | 4"   | 6V DC  | 0.85A | 5.1 | 2.2                | 74 / 68         |
|         | 4"   | 8V AC  | 1.10A | 8.8 | 2.2                | 74 / 68         |
| 55-4G5  | 4"   | 24V AC | 0.20A | 4.8 | 20.0               | 74 / 68         |
| 55-6AM  | 6"   | 6V DC  | 0.80A | 4.8 | 1.9                | 80 / 74         |
|         | 6"   | 8V AC  | 1.00A | 8.0 | 1.9                | 80 / 74         |
| 55-6G5  | 6"   | 24V AC | 0.20A | 4.8 | 24.0               | 80 / 74         |

## General Purpose Bells

### AC and DC Models 156G Series



**Tech Info:** Electrical Rating: 3" gong: 6-8V DC or 8-10V AC, 0.80 Amps or 12-18V DC, 0.20 Amps or 24V DC, 0.15 Amps or 24V AC, 0.30 Amps, 4" gong: 6-8V DC or 8-10V AC, 0.80 Amps or 24V DC, 0.15 Amps or 24V AC, 0.30 Amps or 6-8V DC or 8-10V AC, 0.80 Amps 6" gong: 20-24V DC, 0.15 Amps or 24V AC, 0.30 Amps  
dB @ 10 feet: 72 (3" gong), 76 (4" gong), 80 (6" gong),

Self-contained underdome monitor bell. Weatherproof, insulated, and grounded vibrating bell with concealed plunger. Mounts on 3 3/4" (95mm) bolt circle. For low cost, light duty installations and OEMs. Suitable for AC systems with battery backup. Low current drain permits long wire runs. Supplied with weatherproof gasket for outdoor applications. Corrosion resistant gray finish.

| Cat No.  | Size | Volts            | Amps | dB at 1m / 10 ft. |
|----------|------|------------------|------|-------------------|
| 156G-3AM | 3"   | 6-8V DC 8-10V AC | 0.80 | 78 / 72           |
| 156G-3AX |      | 12-18V DC        | 0.20 | 78 / 72           |
| 156G-3G1 |      | 24V DC           | 0.15 | 78 / 72           |
| 156G-3G5 |      | 24V AC           | 0.30 | 78 / 72           |
| 156G-4AM | 4"   | 6-8V DC 8-10V AC | 0.80 | 82 / 76           |
| 156G-4G1 |      | 24V DC           | 0.15 | 82 / 76           |
| 156G-4G5 |      | 24V AC           | 0.30 | 82 / 76           |
| 156G-6AM | 6"   | 6-8V DC 8-10V AC | 0.80 | 86 / 80           |
| 156G-6AW |      | 20-24V DC        | 0.15 | 86 / 80           |
| 156G-6G1 |      | 24V DC           | 0.15 | 86 / 80           |
| 156G-6G5 |      | 24V AC           | 0.30 | 86 / 80           |

## General Purpose Bells

### Solid Brass Shell 432 Series



#### Tech Info:

Electrical Rating: 24V AC, 0.350 Amps or 120V AC, 0.065 Amps  
dB @ 10 feet: 72

Compact single-stroke bell sounding a crisp, clean tone. Low cost. 2 1/2" Solid brass shell. Low current drain permits long wire runs. For low cost, light duty installations in factories, institutions, offices, and OEMs. Uses include: doorbells, extension signals, warning bells, and audible annunciation. Ideal for end-of-cycle timing, signaling, and paging.

| Cat. No. | Volts   | Amps  | VA  | DC Coil Resistance (Ohms) | dB at 1m/10 ft |
|----------|---------|-------|-----|---------------------------|----------------|
| 432-G5   | 24V AC  | 0.350 | 8.4 | 33.0                      | 78/72          |
| 432-N5   | 120V AC | 0.065 | 7.8 | 864.0                     | 78/72          |

## General Purpose Dixie Bell™

### Fully Enclosed 720 Series



#### Tech Info:

Electrical Rating: 6-8V AC or 3-6V DC, 1.20 Amps  
dB @ 10 feet: 78

Low cost, non-adjustable bell may be operated off a 590 transformer or DC power. Low voltage. AC and DC operation. Attractive snap-on covers. Enclosed binding posts. Corrosion resistant metallic finish. Universal, economy bell widely used in homes, apartment houses, plants, OEMs. Especially suitable for AC-powered security systems with battery standby.

| Cat. No. | Volts              | Amps | VA  | DC Coil Resistance (Ohms) | dB at 1m/10 ft |
|----------|--------------------|------|-----|---------------------------|----------------|
| 720      | 6-8V AC<br>3-6V DC | 1.20 | 7.0 | 1.5                       | 84/78          |



# Nubel General Purpose Bells

## AC and DC Models 740 & 744 Series



### Tech Info:

Electrical Rating: 6-8V AC, 1.20 Amps or 3-6V DC, 1.20 Amps or 6-8V AC, 1.20 Amps or 3-6V DC, 1.20 Amps dB @ 10 feet: 78

Low-cost, non-adjustable bell. AC and DC models to operate off a 590 transformer or DC power. Low voltage. Exposed gong. Attractive snap-on covers. Enclosed binding posts. Corrosion-resistant, metallic finish. Universal economy bell widely used in homes, apartment houses, plants, OEMs. Especially suitable for AC powered systems with battery standby.

| Cat No. | Volts              | Amps | VA   | DC Coil<br>Res (ohms) | dB at<br>1m / 10 ft. | A                 | Dimension<br>B    | C                  |
|---------|--------------------|------|------|-----------------------|----------------------|-------------------|-------------------|--------------------|
| 740     | 6-8V AC<br>3-6V DC | 1.20 | 7.0  | 1.5                   | 84 / 78              | 2 1/2"<br>(64 mm) | 1 1/4"<br>(32 mm) | 5 3/4"<br>(146 mm) |
| 744     | 6-8V AC<br>3-6V DC | 1.20 | 10.0 | 1.5                   | 84 / 78              | 4"<br>(102mm)     | 1 3/4"<br>(44mm)  | 6 7/8"<br>(175mm)  |



# 3



## Buzzers – the many languages of signaling

From buzzing alerts to the wail of a mighty Adaptahorn®, Edwards horns and buzzers are vital safety and communications assets throughout business and industry. They offer the flexibility to deliver the most appropriate signal in just about any facility environment. If you want the latest buzz on signals, you want Edwards – from Hazardous locations to the storage yard.

For Buzzer  
Ordering Info See Page

60-62

## AdaptaBuzzer™

### AC and DC Models 340A & 343A Series



**Approvals:** 340A Series UL 464 Listed, 340A Series FM Approved

**Tech Info:**

Electrical Rating: 24V 50/60Hz, 0.250 Amps or 120V 50/60Hz, 0.050 Amps or 240V 50/60Hz, 0.025 Amps or 12V DC, 0.330 Amps or 24V DC, 0.150 Amps or 75V DC, 0.065 Amps or 25V DC, 0.070 Amps  
dB @ 10 feet: 70 (AC models), 62 (DC models)

Vibrating AdaptaBuzzers are the finest, heavy-duty buzzers available. The AC models are volume adjustable. Vibrating Armature. Universal AdaptaPlate® mounts directly on surface or electrical box. Plug-in convenience. Corrosion-resistant heat-flowed epoxy finish. For timing, scheduling, and paging – wherever a relatively low-decibel signal of a different tone is desired.

| Cat No. | Volts        | Amps  | VA  | DC Coil Resistance (ohms) | dB at 1m/10 ft. |
|---------|--------------|-------|-----|---------------------------|-----------------|
| 340A-G5 | 24V 50/60Hz  | 0.250 | 6.0 | 28                        | 76/70           |
| 340A-N5 | 120V 50/60Hz | 0.050 | 6.0 | 725                       |                 |
| 340A-R5 | 240V 50/60Hz | 0.025 | 6.0 | 2900                      |                 |
| 343A-E1 | 12V DC       | 0.330 | 4.0 | 9.4                       | 68/62           |
| 343A-G1 | 24V DC       | 0.150 | 3.6 | 28                        |                 |
| 343A-M1 | 75V DC       | 0.065 | 4.9 | 360                       |                 |
| 343A-P1 | 125V DC      | 0.070 | 8.8 | 1000                      |                 |

## AdaptaBuzzer™

### Weatherproof DC and AC Models B-8698 & B-8699 Series



**Approvals:** B-8699 Series UL 464 Listed, Type 3R

**Tech Info:** Electrical Rating: 12V DC, 1.5 Amps or 24V DC, 1.0 Amps or 125V DC, 0.2 Amps or 240V DC, 0.1 Amps or 24V AC 60Hz, 1.1 Amps or 120V AC 60 Hz, 0.2 Amps  
dB @ 10 feet: 89 (75 db min.)

B-8698 & B-8699 AdaptaBuzzers are the highest quality, heavy-duty buzzers available. A vibrating armature striking the cover produces sound, starting and stopping instantly with current. Heavy-gauge steel cover. Die-cast aluminum housing. The cover attaches to the unit's cast box by a cast-aluminum threaded ring sealed with a neoprene gasket. Two lugs provide for wall mounting. A 1/2" (13mm) tapped entrance on one side allows field wiring. Connections are made in the base, and the cover assembly plugs in. Indoor or weatherproof installation.

| Cat No.   | Volts         | Amps | VA   | DC Coil Resistance (ohms) | dB at 1m/10 ft. |
|-----------|---------------|------|------|---------------------------|-----------------|
| B-8698-E1 | 12V DC        | 1.5  | 18   | 4.8                       | 95/89           |
| B-8698-G1 | 24V DC        | 1.0  | 24   | 21.5                      | 75 db min.      |
| B-8698-P1 | 125V DC       | 0.2  | 25   | 103                       |                 |
| B-8698-S1 | 240V DC       | 0.1  | 24   | 600                       |                 |
| B-8699-G5 | 24V AC 60Hz   | 1.1  | 26.4 | 5.0                       | 95/8            |
| B-8699-N5 | 120V AC 60 Hz | 0.2  | 24   | 146                       | 75 db min.      |



## Explosionproof Adaptabuzzer™

### Explosionproof B-KM-8140 & B-8141



**Approvals:** UL 1203 Listed

**Tech Info:**

Electrical Rating: 24V DC, 0.8 Amps or 24V AC, 1.1 Amps  
or 120V AC, 0.2 Amps or 240V AC, 0.1 Amps

dB @ 10 feet: 89

Mounts on: any solid surface

The explosionproof AdaptaBuzzers are heavy-duty AC and DC buzzers for Division 1 locations. Sound is produced by the hammer action of a vibrating armature against the cover. A 1/2" tapped conduit entrance allows for field wiring. A corrosion-resistant heat-flowed epoxy finish protects a cast aluminum housing and cover.

## Mineguard™ Mine Buzzers

### MSHA Certified B-8140-M & B-8141-M



**Approvals:** MSHA Certified No. X/P-3116-1, conforms with MSHA 30 CFR Part 18 for methane and air mixtures

**Tech Info:**

Electrical Rating: 24V DC, 0.8 Amps or 250V DC, 0.1 Amps  
or 24V AC, 1.1 Amps or 120V AC, 0.2 Amps or 240V AC,  
0.1 Amps

dB @ 10 feet: 89

Mounts on: any solid surface

The Mineguard series are heavy-duty AC and DC buzzers for use on mining equipment. Sound is produced by the hammer action of a vibrating armature against the cast aluminum cover. A 3/32" power cord and conduit hose constructed of flame retardant neoprene handles power connections. These MSHA buzzers are designed to withstand the constant vibrations associated with mining. A corrosion-resistant heat-flowed epoxy finish protects the heavy-duty cast aluminum housing and cover.

## Strap Mounted Buzzer

### Low Power Drain 1064 & 1065 Series



**Approvals:** UL 464 Listed

#### Tech Info:

Electrical Rating: 24V AC 50/60Hz, 0.25 Amps or 120V AC 50/60Hz, 0.05 Amps or 240V AC 50/60Hz, 0.025 Amps or 24V AC 50/60Hz, 0.25 Amps or 120V AC 50/60Hz, 0.05 Amps or 240V AC 50/60Hz, 0.025 Amps  
dB @ 10 feet: 76

Flush mounted, heavy-duty buzzer for standard outlet box installation. Installs in standard outlet boxes using any standard wall plate. High voltage. Adjustable volume. Zinc-plated finish. Low power drain permits long wire runs. 1064 has terminal connectors 1065 has flying leads. Low cost, quality buzzer widely used in homes, apartment houses, plants, and OEMs.

| Cat No. | Volts           | Amps   | VA | DC Coil Res. (ohms) | dB at 1m/10 ft. |
|---------|-----------------|--------|----|---------------------|-----------------|
| 1064-G5 | 24V AC 50/60Hz  | 0.25A  | 6  | 36                  | 82/76           |
| 1064-N5 | 120V AC 50/60Hz | 0.05A  | 6  | 925                 |                 |
| 1064-R5 | 240V AC 50/60Hz | 0.025A | 6  | 3600                |                 |
| 1065-G5 | 24V AC 50/60Hz  | 0.25A  | 6  | 36                  | 82/76           |
| 1065-N5 | 120V AC 50/60Hz | 0.05A  | 6  | 925                 |                 |
| 1065-R5 | 240V AC 50/60Hz | 0.025A | 6  | 3600                |                 |

## High Voltage Buzzer

### Low Power Drain 1066 Series



**Approvals:** UL Recognized

#### Tech Info:

Electrical Rating: 24V AC 50/60Hz, 0.25 Amps or 120V AC 50/60Hz, 0.05 Amps or 240V AC 50/60Hz, 0.025 Amps  
dB @ 10 feet: 74

Designed for standard outlet box installation. Leads for wiring connections provided. High voltage. Adjustable volume. Zinc-plated finish. Low power drain permits long wire runs. Low cost, quality buzzer widely used in homes, apartment houses, plants, and OEMs.

| Cat No. | Volts           | Amps   | VA | DC Coil Res. (ohms) | dB at 1m/10 ft. |
|---------|-----------------|--------|----|---------------------|-----------------|
| 1066-G5 | 24V AC 50/60Hz  | 0.25A  | 6  | 36                  | 80/74           |
| 1066-N5 | 120V AC 50/60Hz | 0.05A  | 6  | 925                 |                 |
| 1066-R5 | 240V AC 50/60Hz | 0.025A | 6  | 3600                |                 |

## Miniature Lungen™ Buzzer

### AC and DC Models 15 Series



#### Tech Info:

Electrical Ratings: See chart below.

Sizes: 1 5/8", 2 1/8", 2 5/8" and 3" Heights  
dB @ 10 feet: 65.5 (1 5/8" height), 68 (2 1/8" height),  
69 (2 5/8" height), 74.5 (3" height)

Compact, long-life, trouble-free buzzers with adjustable volume. Chrome cover. Zinc-plated base.

| Cat No. | Volts    | Amps | VA  | DC Coil<br>Res (ohms) | dB at<br>1m/10 ft. |
|---------|----------|------|-----|-----------------------|--------------------|
| 15-0AJ  | 5-8V DC  | 0.2  | 1.2 | 10                    | 71.5/65.5          |
|         | 6-10V AC | 0.3  | 2.4 | 10                    | 71.5/65.5          |
| 15-0G1  | 24V DC   | 0.1  | 2.4 | 120                   | 71.5/65.5          |
| 15-0G5  | 24V AC   | 0.2  | 4.8 | 85                    | 71.5/65.5          |
| 15-1AB  | 5-10V DC | 0.3  | 2   | 8                     |                    |
|         | 6-12V AC | 0.45 | 3.5 | 8                     |                    |
| 15-1E1  | 12V DC   | 0.2  | 2.4 | 20                    | 74/68              |
| 15-1G1  | 24V DC   | 0.1  | 2.4 | 90                    |                    |
| 15-1G5  | 24V AC   | 0.25 | 6   | 56                    |                    |
| 15-2AB  | 5-10V DC | 3.5  | 2   | 6                     |                    |
|         | 6-12V AC | 3.0  | 3   | 6                     | 75/69              |
| 15-2G1  | 24V DC   | 0.15 | 3.6 | 60                    |                    |
| 15-2G5  | 24V AC   | 0.25 | 6   | 40                    |                    |
| 15-3AB  | 5-10V DC | 0.3  | 2   | 5                     |                    |
|         | 6-12V AC | 0.4  | 2.5 | 5                     |                    |
| 15-3E1  | 12V DC   | 0.2  | 2.4 | 20                    | 80.5/74.5          |
| 15-3G1  | 24V DC   | 0.2  | 4.8 | 44                    |                    |
| 15-3G5  | 24V AC   | 0.25 | 6   | 30                    |                    |

## Miniature Lungen™ Buzzer

### AC Operation 115 Series



#### Tech Info:

Electrical Ratings: 2 5/32" Height: 8V AC, 0.4 Amps or  
24V AC, 0.2 Amps or 2 5/8" Height: 8V AC, 0.5 Amps or  
24V AC, 0.2 Amps or 3 7/16" Height: 8V AC, 0.45 Amps  
or 24V AC, 0.25 Amps

Sizes: 2 5/32", 2 5/8" and 3 7/16" Heights  
dB @ 10 feet: 73 (2 5/32" Height), 77 (2 5/8" Height),  
80 (3 7/16" Height)

Compact, dependable buzzer designed for long life and trouble-free installations. Adjustable volume, Chrome cover, Zinc plated base, Contact-less. For installation in commercial buildings, offices, and OEM applications.

| Cat No. | Volts  | Amps | VA  | DC Coil<br>Res (ohms) | dB at<br>1m/10 ft. |
|---------|--------|------|-----|-----------------------|--------------------|
| 115-1AC | 8V AC  | 0.4  | 3.2 | 12.5                  | 79/73              |
| 115-1G5 | 24V AC | 0.2  | 4.8 | 80                    | 79/73              |
| 115-2AC | 8V AC  | 0.5  | 4   | 6.5                   | 83/77              |
| 115-2G5 | 24V AC | 0.2  | 4.8 | 45                    | 83/77              |
| 115-4AC | 8V AC  | 0.45 | 4   | 3.6                   | 86/80              |
| 115-4G5 | 24V AC | 0.25 | 6   | 28                    | 86/80              |

## Dixie Buzzer™ & Dixie Buzabel™

### Low Voltage 725 & 730 Series



#### Tech Info:

Electrical Rating: Model 725: 6V AC, 1.20 Amps  
Model 730: 6V AC, 0.7 Amps or 3-6V DC, 1.4 Amps or 6-8V AC 60Hz, 1.4 Amps  
Sizes: 2 3/4" and 5 1/4" Height

The 725 is a low-cost, fully-insulated, non-adjustable buzzer with enclosed binding posts. The 730 is a low-cost, non-adjustable combination bell and buzzer with grounded frame which may be operated on AC power from a 590 transformer or on DC power. It comes with enclosed terminals. Both feature low voltage, attractive snap on covers, a satin aluminum finish and are fully enclosed. These are universal economy buzzers or bell and buzzer combinations widely used in homes, apartment houses, plants, and OEMs.

| Cat No. | Volts        | Amps  | VA  | DC Coil Res. (ohms) | dB at 1m/10 ft. |
|---------|--------------|-------|-----|---------------------|-----------------|
| 725     | 6V AC        | 1.20A | 7.2 | 1.0                 | 88/82           |
| 730     | 6V AC        | 0.7A  | 4.2 | 3                   | 88/82           |
|         | 3-6V DC      | 1.4A  | 8   | 3                   |                 |
|         | 6-8V AC 60Hz | 1.4A  | 8   | 3                   |                 |

## Midi Vibrating Horns

### Compact Size 118 & 123A Series



#### Tech Info:

Electrical Rating: 12V DC, 0.07 Amps or 24V DC, 0.03 Amps or 12V AC 60Hz, 0.4 Amps or 24V AC 60Hz, 0.2 Amps or 120V AC 60Hz, 0.04 Amps  
Sizes: 1 11/64" Height, 1 3/16" Height  
dB @ 10 ft: 86  
Mounts on: any solid surface

118 Series DC and 123A Series AC Midi Vibrating Horns are designed for security systems and for signaling devices on an OEM basis. Comes supplied with mounting bracket and attaches to surface using #8-32 screw. They feature low power drain, compact size, and shock-resistant design. They deliver a broad operating temperature range of -40° to 180°F (-40 to 82°C). Used for security systems, office machines, low-voltage trouble alarms, home appliances, data monitoring systems, computers, and timing devices.

| Cat No. | Volts        | Amps  | VA   | DC Coil Res. (ohms) | dB at 1m/10 ft. |
|---------|--------------|-------|------|---------------------|-----------------|
| 118-E1  | 12V DC       | 0.07A | 0.84 | 25.5                | 92/86           |
| 118-G1  | 24V DC       | 0.03A | 0.72 | 102.0               |                 |
| 123A-E5 | 12V AC 60Hz  | 0.4A  | 4.8  | 10.0                | 92/86           |
| 123A-G5 | 24V AC 60Hz  | 0.2A  | 4.8  | 40.0                |                 |
| 123A-N5 | 120V AC 60Hz | 0.04A | 4.8  | 1200.0              |                 |



# Flush-Call Strap-Mounted Signals

## Low Voltage 660 Series



### Tech Info:

Electrical Rating: Bell: 8-10V AC, 1.5 Amps, Buzzer 8-10V AC, 1.3 Amps, Bell/Buzzer 8-10V AC, 1.5 Amps  
Sizes: 1 3/8" Height Bell, 7/8" Height Buzzer, 1 3/8" Height Bell/Buzzer  
dB @ 10 feet: 80  
Mounts on: Flush mounts on standard outlet box.

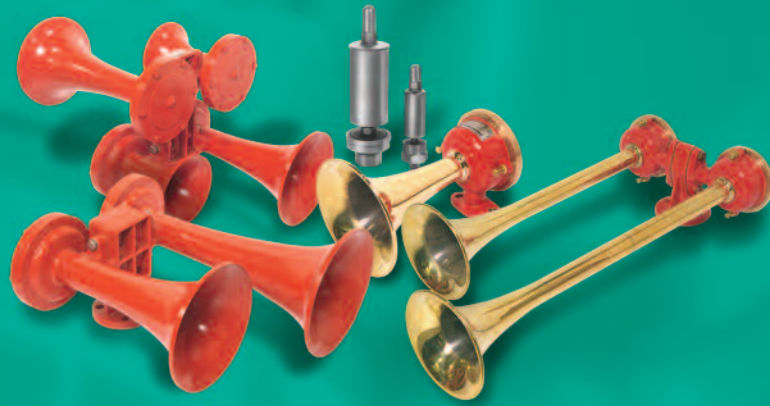
The 660 Series are compact, strap-mounted, low-voltage buzzers and bells designed for easy flush mounting in standard outlet boxes. Requires a 590 transformer and push button. Transformer and pushbutton may be mounted in same 3 gang outlet box with a minimum depth of 1 3/4" (44 mm) using a 593 transformer mounting plate. Used for residential and commercial door signals and interoffice communications and signaling.

| Cat No.         | Volts    | Amp* | VA | DC Coil    |                 |
|-----------------|----------|------|----|------------|-----------------|
|                 |          |      |    | Res (ohms) | dB at 1m/10 ft. |
| 660 Bell        | 8-10V AC | 1.5A | 15 | 4.75       | 86/80           |
| 661 Buzzer      | 8-10V AC | 1.3A | 13 | 6          | 86/80           |
| 662 Bell/Buzzer | 8-10V AC | 1.5A | 15 | 4.75       | 86/80           |

\*Current ratings at 10V AC



# 4



## Horns – signals and controls

The finest materials and precise engineering make Edwards horns a viable signaling choice. Put Edwards signals to work in your infrastructure and get your message out loud and clear.

For Horn  
Ordering Info See Page

60-63

## AdaptaHorn® Electronic Horn

### Indoor or Outdoor Surface Flush or Panel Mount 867, 869 & 869D Series



**Approvals:** UL 464 Listed, 869D cUL Listed C22.2 No. 205

**Tech Info:**

Electrical Ratings: Surface mount models: 24V AC, 60mA or 24V DC, 20mA or 120V AC, 21mA

Flush or panel mount: 24V AC, 60mA or 24V DC, 20mA or 120V AC, 21mA or 24V DC, 20mA or Diode Polarized 24V DC, 40mA

dB @ 10 feet: See chart below

Mounts: Surface, flush or panel depending on model

The 867, 869 and 869D are low current, high decibel, surface, flush or panel-mount, indoor electronic horns. The 867 surface mounts with the corrosion-resistant box supplied. The 869 and 869D series flush or panel mount. (Back box and extension ring not supplied.) Terminals provide for easy wiring. All weatherproof with 869-WPB back box. Gray, flame-resistant thermoplastic housing.

| Cat. No. | Mounting        | Voltage       | Amps       | dB at 10 ft (3.05m)        |
|----------|-----------------|---------------|------------|----------------------------|
| 867-AQ   | Surface         | 24V AC/24V DC | 60mA /20mA | 90 dBA (Anechoic chamber)  |
| 867-N5   | Surface         | 120V AC       | 21mA       | 90 dBA (Anechoic chamber)  |
| 869-AQ   | Flush or panel  | 24V AC/24V DC | 60mA/20mA  | 90 dBA (Anechoic chamber)  |
| 869-N5   | Flush or panel  | 120V AC       | 21mA       | 90 dBA (Anechoic chamber)  |
| 869D-G1  | Diode Polarized | 24V DC        | 20mA       | 98 dBA (Anechoic chamber)  |
|          | Flush or panel  | 24V DC        | 40mA       | 102 dBA (Anechoic chamber) |

## AdaptaHorn® Electronic Horn

### Outdoor Surface Mount 868 Series



**Approvals:** UL 464 Listed

**Tech Info:**

Electrical Rating: 4V AC, 60mA or 24V DC, 20mA or 120V AC, 21mA

dB @ 10 feet: 90

Mounts on: any flat surface

The 868 series is a low-current, high-decibel, weather-proof surface mount, electronic horn for outdoor or indoor use. Comes complete with gasket and weather-proof surface back box measuring 5 59/64" (150mm) square by 3 13/32" (87mm) deep. Built in terminals for easy wiring. Gray, flame-resistant, engineered thermoplastic housing.

| Cat. No. | Voltage | Amps | dB at 10 ft (3.05m)       |
|----------|---------|------|---------------------------|
| 868-AQ   | 24V AC  | 60mA | 90 dBA (Anechoic chamber) |
|          | 24V DC  | 20mA |                           |
| 868-N5   | 120V AC | 21mA | 90 dBA (Anechoic chamber) |



## AdaptaHorn® Flush Mount Vibrating Horn

Indoor Flush or Panel Mount  
PLC Compatibles Available  
**870 & 871 Series**



**Approvals:** UL Listed, FM Approved (870 Series)

**Tech Info:**

Electrical Rating: 24V AC, 0.63 Amps, or 120V AC, 0.13 Amps, or 240V AC, 0.07 Amps or 12V DC, 0.27 Amps, or 24V DC, 0.16 Amps, or 48V DC, 0.07 Amps or 125V DC, 0.025 Amps or 250V DC, 0.014 Amps  
dB @ 10 feet: 78-103 (AC models), 78-101 (DC models)

870 AC & 871 DC Series low-current, high-decibel, flush-mount vibrating horns are for heavy-duty use in indoor wall or panel installation and extend only 11/16" from the surface. Adjustable volume (see above). Comes with trim plate. Order Cat. No. 870-B back box separately.

**PLC Compatibility – Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No. | Operating Voltage | Max. off state leak current (mA) | Continuous on Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|----------|-------------------|----------------------------------|----------------------------|-------------------------------------------|
| 870-N5   | 120V AC 60 Hz     | 25                               | 120                        | 1.02/.000026                              |
| 871-G1   | 24V DC            | 25                               | 150                        | 1.7/.000042                               |

Electromechanical devices can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. Consult the PLC manufacturer prior to connecting 24V DC electromechanical devices to the PLCs.

## Adaptahorn® Type 4X Panel Mount Vibrating Horn

Type 4X  
PLC Compatible models available  
**870P & 871P Series**



**Approvals:** UL Listed, Type 4X

**Tech Info:**

Electrical Rating: 6V DC, 0.7 Amps or 12V DC, 0.27 Amps or 24V DC, 0.16 Amps or 32V DC, 0.11 Amps or 125V DC, 0.014 Amps or 250V DC, 0.025 Amps or 12V AC, 1.25 Amps or 24V AC, 0.63 Amps or 120V AC, 0.13 Amps or 240V AC, 0.07 Amps

dB @ 10 feet: 101 (DC models), 103 (AC models)

Mounts on: semi-flush panel mount or on 4" square box

Heavy-duty 870P AC and 871P DC low-current horns deliver high decibel vibrating signals in Type 4X locations – a gasket is included. PLC compatibility is available and all models function from –20% to +10% of nominal voltage. Completely assembled, they include a volume adjustment set screw on the cover. The die cast housing is corrosion resistant.

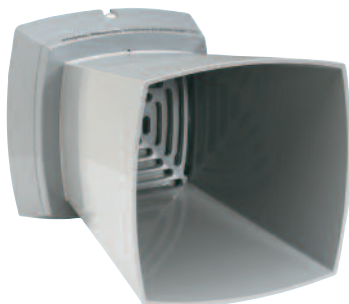
**PLC Compatibility – Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No. | Operating Voltage | Max. off state leak current (mA) | Continuous on Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|----------|-------------------|----------------------------------|----------------------------|-------------------------------------------|
| 870P-N5  | 120V AC           | 25                               | 120                        | 1.02/.000026                              |
| 871P-G1  | 24V DC            | 25                               | 150                        | 1.7/.000042                               |

Electromechanical devices can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. Consult the PLC manufacturer prior to connecting 24V DC electromechanical devices to the PLCs.

## AdaptaHorn® Single Projector Vibrating Horn

Indoor Applications  
PLC Compatibles Available  
**872 & 873 Series**



### Tech Info:

Electrical Rating: 12V AC, 1.25 Amps or 24V AC, 0.63 Amps or 120V AC, 0.13A or 240V AC, 0.07 Amps or 24V DC, 0.16 Amps, or 48V DC, 0.07 Amps or 125V DC, 0.025 Amps, or 250V DC, 0.014 Amps  
dB @ 10 ft: 78-103

The 872 AC & 873 DC Series are low-current, high-decibel single-projector vibrating horns for heavy-duty use. The single projector channels sound in one direction without decibel loss. Supplied AdaptaPlate® for easy installation – horn simply plugs into mounting plate receptacle. Or mounts on any single gang, 3 1/4" (83mm), 3 1/2" (89mm), 4" (102mm) octagon, or 4" (102mm) square box.

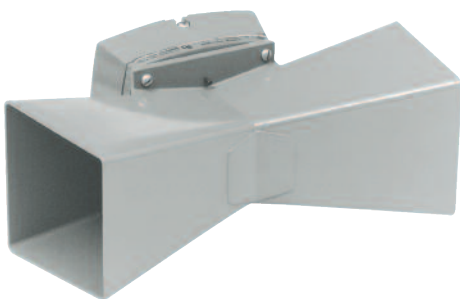
### PLC Compatibility – Signal Input Load Characteristics (PLC output to meet following product input parameters)

| Cat. No. | Operating Voltage | Max. off state leak current (mA) | Continuous on Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|----------|-------------------|----------------------------------|----------------------------|-------------------------------------------|
| 872-N5   | 120V AC           | 25                               | 120                        | 1.02/.000026                              |
| 873-G1   | 24V DC            | 25                               | 150                        | 1.7/.000042                               |

Electromechanical devices can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. Consult the PLC manufacturer prior to connecting 24V DC electromechanical devices to the PLCs.

## AdaptaHorn® Double Projector Vibrating Horn

Indoor Applications  
PLC Compatibles Available  
**872DPO & 873DPO Series**



**Approvals:** UL Listed, FM Approved (872DPO Series)

### Tech Info:

Electrical Ratings: 12V AC, 1.25 Amps or 24V AC, 0.63 Amps or 120V AC, 0.13 Amps or 240V AC, 0.07 Amps or 12V DC, 0.27 Amps or 24V DC, 0.16 Amps or 32V DC, 0.13 Amps or 125V DC, 0.025 Amps or 250V DC, 0.014 Amps  
dB @ 10 ft: 78-101 (AC models), 78-99 (DC models)

Low-current, high-decibel, heavy-duty vibrating horns for bi-directional signaling. Supplied AdaptaPlate® for easy installation – horn plugs into mounting plate receptacle. Or mounts on any single gang, 3 1/4" (83mm), 3 1/2" (89mm), 4" (102mm) octagon, or 4" (102mm) square box.

### PLC Compatibility – Signal Input Load Characteristics (PLC output to meet following product input parameters)

| Cat. No.  | Operating Voltage | Max. off state leak current (mA) | Continuous on Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|-----------|-------------------|----------------------------------|----------------------------|-------------------------------------------|
| 872DPO-N5 | 120V AC           | 25                               | 120                        | 1.02/.000026                              |
| 873DPO-G1 | 24V DC            | 25                               | 150                        | 1.7/.000042                               |

Electromechanical devices can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. Consult the PLC manufacturer prior to connecting 24V DC electromechanical devices to the PLCs.

## AdaptaHorn® Grille Type Vibrating Horn

Indoor Applications  
PLC Compatibles Available  
**874 & 875 Series**



**Approvals:** UL Listed, FM Approved (874 Series)

**Tech Info:**

Electrical Rating: 12V AC, 1.25 Amps or 78-24V AC, 0.63 Amps or 120V AC, 0.13 Amps or 240V AC, 0.06 Amps or 6V DC, 0.70 Amps or 12V DC, 0.27 Amps or 24V DC, 0.16 Amps or 125V DC, 0.025 Amps or 250V DC, 0.014 Amps dB @ 10 ft: 78-103 (AC models), 78-101 (DC models)

Low-current, high-decibel, heavy-duty, surface-mount vibrating horns simply plug into receptacle on supplied Adaptaplate®. Or mount on single gang, 3 1/4" (83mm), 3 1/2" (89mm), 4" (102mm) octagon or 4" square box.

**PLC Compatibility – Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No. | Operating Voltage | Max. off state leak current (mA) | Continuous on Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|----------|-------------------|----------------------------------|----------------------------|-------------------------------------------|
| 874-N5   | 120V AC 60 Hz     | 25                               | 120                        | 1.02/.000026                              |
| 875-G1   | 24V DC            | 25                               | 150                        | 1.7/.000042                               |

Electromechanical devices can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. Consult the PLC manufacturer prior to connecting 24V DC electromechanical devices to the PLCs.

## Adaptahorn® Type 4X Grille Type Vibrating Horn

Type 4X, Weatherproof,  
PLC Compatible models available  
**876 & 877 Series**



**Approvals:** UL Listed, Type 4X, FM Approved

**Tech Info:**

Electrical Rating: 12V DC, 0.27 Amps or 24V DC, 0.16 Amps or 32V DC, 0.13 Amps or 48V DC, 0.07 Amps or 125V DC, 0.025 Amps or 12V AC, 1.25 Amps or 24V AC, 0.63 Amps or 120V AC, 0.13 Amps or 240V AC 0.07 Amps dB @ 10 feet: 101 (DC models), 103 (AC models)  
Mounts on: 3/4" conduit or any flat surface

Weatherproof, heavy-duty 876 AC and 877 DC Series low-current horns deliver high decibel vibrating signals in Type 4X locations. PLC compatible models are available, and all models function from -20% to +10% of nominal voltage. Units are completely assembled, feature convenient plug-in assembly, and include a volume adjustment set screw on the cover. The die cast housing has a corrosion-resistant heat-flowed powder-epoxy finish.

**PLC Compatibility – Signal Input Load Characteristics** (PLC output to meet following product input parameters)

| Cat. No. | Operating Voltage | Max. off state leak current (mA) | Continuous on Current (mA) | Surge (inrush/duration) Amps/Milliseconds |
|----------|-------------------|----------------------------------|----------------------------|-------------------------------------------|
| 876-N5   | 120V AC           | 25                               | 120                        | 1.02/.000026                              |
| 877-G1   | 24V DC            | 25                               | 150                        | 1.7/.000042                               |

Electromechanical devices can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. Consult the PLC manufacturer prior to connecting 24V DC electromechanical devices to the PLCs.

## Adaptahorn® Grille Type, Explosionproof Horn

Class I, Div. 1&2, Outdoor Rated,  
Type 4X  
**878EX & 879EX Series**



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C and D; Class II, Division 1 and 2, Groups E, F and G; and Class III locations, UL Listed for outdoor locations, Type 4X

**Tech Info:**

Electrical Rating: 6V DC, 0.70 Amps or 12V DC, 0.27 Amps or 24V DC, 0.16 Amps or 32V DC, 0.13 Amps or 48V DC, 0.07 Amps or 125V DC, 0.025 Amps or 12V 50/60Hz, 1.25 Amps or 24V 50/60 Hz, 0.625 Amps or 120V 50/60 Hz, 0.13 Amps or 240V 50/60 Hz, 0.065 Amps

dB @ 10 feet: 97

Mounts on: any solid surface

The explosionproof AdaptaHorn 878EX and 879EX Series grille type heavy-duty horns deliver high decibel vibrating signals in hazardous locations. They feature a wide operating voltage range, functioning from -20% to +10% of nominal voltage. The horns feature a low power drain for efficient operation over long runs. One side of the housing is tapped for 3/4" conduit to allow for field wiring – power connection wires are embedded in sealing compound. The heat-flowed epoxy finish is corrosion resistant.

## Adaptahorn® Grille Type Explosionproof Horn

Class I, Div. 1&2, Diode Polarized,  
Outdoor Rated, Type 4X  
**878DEX & 879DEX Series**



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups B, C and D; Class II, Division 1 and 2, Groups E, F and G; and Class III locations, UL Listed for outdoor locations, Type 4X (for general signaling in non-fire alarm applications), CSA version available

**Tech Info:**

Electrical Rating: 24V DC, 0.16 Amps or 120V AC, 0.13 Amps

dB @ 10 feet: 97

Mounts on: any solid surface

Explosionproof AdaptaHorn 878DEX and 879DEX Series grille type heavy-duty horns deliver high decibel vibrating horn signals in hazardous locations. Diode polarized, they are ideal for electrically supervised circuits. They feature a wide operating voltage range, functioning from -20% to +10% of nominal voltage. The horns feature a low power drain for efficient operation over long runs. One side of the housing is tapped for 3/4" conduit to allow for field wiring – power connection wires are embedded in sealing compound. The heat-flowed epoxy finish is corrosion resistant.



## Adaptahorn® Type 4X Single Projector Horn

### Type 4X, Weatherproof B-8526 & B-N-8546 Series



**Approvals:** UL Listed Type 4X enclosures

**Tech Info:**

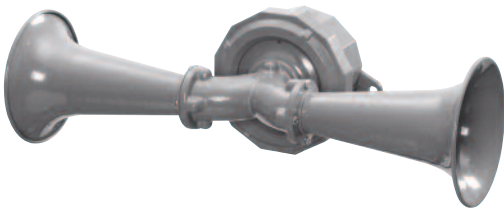
Electrical Rating: 24V DC, 1.0 Amps or 125V DC, 0.2 Amps or 250V DC, 0.1 Amps or 12V AC, 1.6 Amps or 24V AC, 1.1 Amps or 120V AC, 0.2 Amps or 240V AC, 0.1 Amps  
dB @ 10 feet: 95 (DC models), 97 (AC models)

Mounts on: any flat surface

The weatherproof, heavy-duty B-8526 (DC) and B-N-8546 (AC) Series single projector horns deliver loud and distinctive signaling in Type 4X locations. The sound mechanism starts and stops instantly with current impulse. The units feature a 7" seamless steel projector and a vibrating diaphragm. The units are completely assembled, gasket sealed, feature convenient plug-in assembly, and include an external volume adjustment set screw. The heavy-duty die-cast aluminum housing has corrosion-resistant heat-flowed powder-epoxy finish and is tapped on the side for 1/2" conduit.

## Adaptahorn® Type 4X Double Projector Horn

### Type 4X, Weatherproof B-8599 & B-N-8590 Series



**Approvals:** UL Listed Type 4X enclosure,  
UL Listed 60 Hz (B-N-8590)

**Tech Info:**

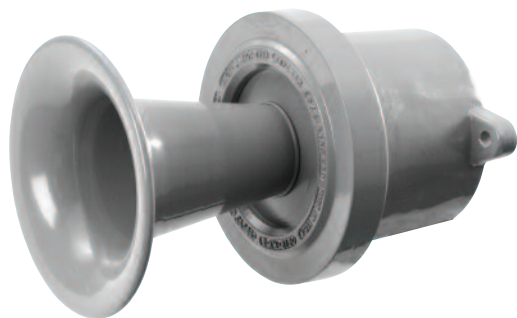
Electrical Rating: 12V DC, 1.5 Amps or 24V DC, 1.0 Amps or 125V DC, 0.2 Amps or 250V DC, 0.1 Amps or 12V AC, 1.6 Amps or 24V AC, 1.1 Amps or 120V AC, 0.2 Amps  
dB @ 10 feet: 93 (DC models), 95 (AC models)

Mounts on: any flat surface

The weatherproof, heavy-duty B-8599 (DC) & B-N-8590 (AC) Series double projector horns deliver loud and distinctive signaling in Type 4X locations. The sound mechanism starts and stops instantly with current impulse. The units feature dual 7" seamless steel projectors and a vibrating diaphragm. The units are completely assembled, gasket sealed, feature convenient plug-in assembly, and include an external volume adjustment set screw. The heavy-duty die-cast aluminum housing has corrosion-resistant heat-flowed powder-epoxy finish and is tapped on the side for 1/2" conduit.

## Adaptahorn® Explosionproof Single Projector Horn

Class I, Div. 1&2  
B-KM-8130 Series



**Approvals:** UL Listed for Class I, Division 1 and 2, Groups C and D; Class II, Division 1 and 2, Groups E, F, and G; and Class I Groups A and B, Division II locations

**Tech Info:**

Electrical Rating: 24V AC, 2.0 Amps or 120V AC, 0.45 Amps or 240V AC, 0.20 Amps

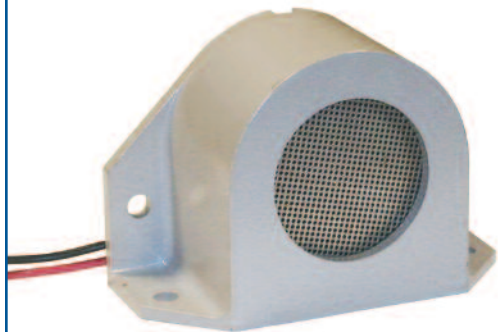
dB @ 10 feet: 105

Mounts on: any solid surface

The B-KM-8130 single projector horn delivers high decibel vibrating horn signals in hazardous locations. It features a cast aluminum housing and ring, a seamless 5 1/2" steel projector, and a 5" spring steel diaphragm. The housing is tapped for 1/2" conduit to allow for field wiring. The heat-flowed epoxy finish is corrosion resistant.

## Backup Alarms

Heavy-duty  
8001-EG & 8002-EU Series



**Approvals:** Conforms to SAE J994 sound level Type C requirements

**Tech Info:**

Electrical Rating: 12-24V DC or 12-36V DC

dB: 12-24V model auto adjusts from 87 -102dB rating based on "A" weighted scale

12-36V model delivers fixed output of 97dB

Mounts on: vehicles where backup alarms are desired

Heavy-duty backup alarms for indoor and outdoor use in a wide variety of vehicles operated in populated areas. Alarms mount in the rear of the vehicle with the opening outward. They feature compact size and high-decibel output. Long term reliability is a result of rugged weatherproof construction and solid-state, epoxy-sealed electronics. The 8001-EG die-cast alarm automatically adjusts output volume to 10 dB above ambient. Range is 87-102 dB. The 8002-EU has an ABS plastic housing and an output of 97 dB. Ideal for forklifts, bulldozers, graders, tractors, dump trucks, and waste disposal vehicles as well as emergency and maintenance vehicles, buses, fire trucks, and general utility vehicles. An economical life-safety device.

# 5



## Sirens

Sometimes only the scream of a siren will do. And when that's the case, there's a world of signaling solutions from Edwards. Indoor, outdoor, hazardous locations – our sirens deliver the distinctive sound that gets attention and sparks action. There's no better way to get people moving than an Edwards siren. Loud, powerful and reliable.

For Sirens  
Ordering Info See Page

61

## Motor Driven Industrial Siren

### Heavy-Duty, Outdoor Use 315A-AH Series



**Approvals:** UL Listed for continuous duty

**Tech Info:**

Electrical rating: 120V AC/DC, 2.5 Amps

Frequency: 1100 Hz

dB @ 10 ft: 110

Mounts on: any solid surface

Heavy-duty, industrial-design, 2.5 amp, 1100 Hz motor-driven siren emits a continuous, loud, piercing wail. Weatherproof design features fully-enclosed motor and heavy-gauge aluminum construction. Mounts to any solid surface using two bolts. Swivels through 180°, vertically or horizontally, depending on bracket orientation

| Cat. No. | Volts      | Amps | VA  | dB at 10 ft<br>(3.05 m) |
|----------|------------|------|-----|-------------------------|
| 315A-AH  | 120V AC/DC | 2.5  | 300 | 110                     |

## Klaxet Signals

### Motor Driven Klaxet



**Approvals:** UL Listed

**Tech Info:**

Electrical Rating: 24V AC, 50/60 Hz, 2.5 Amps

Frequency: 470 Hz

dB @ 10 ft: 101

Mounts using supplied bracket

The KH series is an indoor, projector-type signal that sounds the unique Klaxon tone. The sound is produced by the revolution of a serrated rotor against a hardened steel stud riveted to the center of a diaphragm. Rugged, heavy-duty signal comes completely assembled. Field wiring through a 1/2" (13mm) conduit connection. Automatic resettable overload protection. Designed for high-noise environments such as machine and heavy equipment areas. Uses include equipment start and stop, general warning, and equipment breakdown.

KLAXON is a registered trademark of Klaxon Signals Ltd.



## Klaxon® Motor Driven Siren

### Weatherproof MONO



#### Tech Info:

Electrical Rating: 24V AC 50/60 Hz, 4.6 Amps or 24V DC, 3.6 Amps or 120V AC 50/60 Hz, 1.0 Amps or 120V DC, 0.9 Amps

Frequency: 1800 Hz

dB @ 10 ft: 106

Mounts on: any solid surface

The MONO series is a small, weatherproof, motor-driven siren whose unique output signal may be pulsed on and off to achieve a wailing tone. The siren's sound is produced by a multi-bladed, nylon impeller which pulls air through openings located on the front of the unit and pushes the air out through radially positioned vents. The MONO comes completely assembled and is designed for mounting using the housing bracket included. The signal is supplied with wire leads for connection in an appropriate electrical box. Rated for continuous use. Automatic resettable overload protection. Applications include local weather and emergency warning, and area evacuation.

| Cat. No. | Volts            | Amps | dB at 10 ft<br>(3.05 m) |
|----------|------------------|------|-------------------------|
| KI2102   | 24V AC 50/60 Hz  | 4.6A | 106                     |
|          | 24V DC           | 3.6A | 106                     |
| KI2105   | 120V AC 50/60 Hz | 1.0A | 106                     |
|          | 120V DC          | 0.9A | 106                     |

KLAXON is a registered trademark of Klaxon Signals Ltd.

## Motor Driven Horn

### Weatherproof KH Series



#### Tech Info:

Electrical Rating: 24V DC, 2.3 Amps or 24V AC 50/60 Hz, 4.0 Amps or 120V AC 50/60 Hz, 0.84 Amps or 250V DC, 0.35 Amps

Frequency: 470 Hz

dB @ 10 ft: 110

Mounts on: any solid surface

The KH series is a signal that sounds the easily recognized, unique Klaxon tone. The sound is produced by the revolution of a serrated rotor against a hardened steel stud riveted to the center of a diaphragm. The KH comes completely assembled and mounts using the supplied bracket. Supplied wire leads connect in an appropriate electrical box. Rated for intermittent use - 2 minutes on, 5 minutes off. Designed for use in industrial areas or high noise, severe weather environments such as marinas or shipyards.

| Cat. No. | Volts            | Amps  | dB at 10 ft<br>(3.05 m) |
|----------|------------------|-------|-------------------------|
| KH2001   | 24V DC           | 2.3A  | 110                     |
| KH2004   | 120V AC 50/60 Hz | 0.84A | 110                     |
| KH2006   | 250V DC          | 0.35A | 110                     |

KLAXON is a registered trademark of Klaxon Signals Ltd.

## Klaxon® Manual Horn

### Unique "Klaxon" Sound



#### Tech Info:

Manually operated - no electricity

Frequency: 150-350 Hz

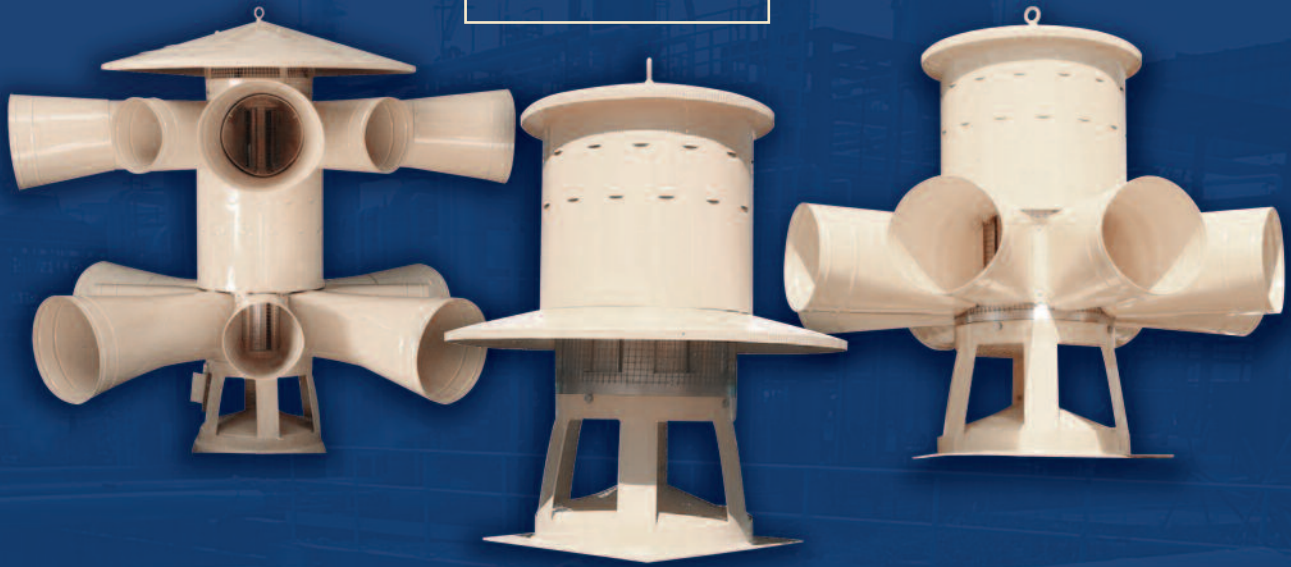
dB @ 10 ft: 95

Mounts on: any solid surface

A projector-type, manually-operated horn that sounds the familiar, unique Klaxon sound. The horn is easily operated by either hand or foot. The ES comes completely assembled and is designed for mounting using the housing bracket included. It may also be used as a portable unit. The ES is ideal for construction sites and other areas where a portable audible signal is required or where no electrical power is available. Gray finish.

KLAXON is a registered trademark of Klaxon Signals Ltd.

# 6



## Outdoor Warning Systems

It's a new world. And that's all the more reason to rely on the good old-fashion reliability of Edwards outdoor warning systems. Get your message heard across the street, across the plant or across town. With your choice of the latest communications interfaces and electrical connections, Edwards has more ways to keep your people safe and informed.

For Outdoor Warning Systems  
Ordering Info See Page

60

## Omni-Directional Warning Siren

### 107 dB, Skirted Horn Design EWS-V1 Series



#### Tech Info:

Electrical Rating: Three phase motor: 5 HP 208/230/460V 60 Hz, starting amps: 66, running amps: 12 Single phase motor: 5 HP 230V 60 Hz, starting amps: 127, running amps: 23

Port tone frequency: 460 cps

Estimated sound circle: 3200 ft. (975.4 m) continuous dB @ 100 ft: 107

Mounts on: any solid horizontal surface or utility pole

The EWS-V1 Series delivers 107 dB (at 100 ft) of omni-directional power. A non-corrosive, cast-aluminum fan produces a port tone frequency of 460 cycles per second. Exposed components are powder-coated, zinc-plated, steel – the most durable finish available. Fan and housing are non-corrosive cast aluminum. Max. unit diameter is 34" (86.4 cm), max. height 34" (86.4 cm), and max. dimensions of the mounting base are 19" (48.3 cm) square. Siren shipping weight alone is 250 lbs. (113.4 kg). Accessories such as remote magnetic motor starters, one, two, and three function control centers, radio controls, and utility pole mounting brackets are available.

| Cat. No. | Description                           |
|----------|---------------------------------------|
| EWS-V1-3 | Outdoor siren with three phase motor  |
| EWS-V1   | Outdoor siren with single phase motor |

## Omni-Directional Warning Siren

### 109 dB, 8 Horn, Equal Length, Single Row EWS-V2 Series



#### Tech Info:

Electrical Rating: Three phase motor: 5 HP 208/230/460V, 60 Hz, starting amps: 66, running amps: 12 Single phase motor: 5 HP 230V 60 Hz, starting amps: 127, running amps: 23

Port tone frequency: 460 cps

Estimated sound circle: 4000 ft. (975.4 m) continuous dB @ 100 ft: 109

Mounts on: any solid horizontal surface or utility pole

The EWS-V2 Series combines large siren function with cost effectiveness through projectors which distribute and organize sound. Rated 109 dB at 100 ft, the EWS-V2 produces continuous 360° coverage. A single tone siren produces a port tone frequency of 460 cps. Exposed components are powder-coated, zinc-plated steel. Fan and housing are non-corrosive cast aluminum. Max. unit diameter is 34" (86.4 cm), max. height 34" (86.4 cm), and max. dimensions of the mounting base are 19" (48.3 cm) square. Siren shipping weight alone is 250 lbs. (113.4 kg). Accessories such as remote magnetic motor starters, one, two and three function control centers, radio controls and utility pole mounting brackets are available.

| Cat. No. | Description                           |
|----------|---------------------------------------|
| EWS-V2-3 | Outdoor siren with three phase motor  |
| EWS-V2   | Outdoor siren with single phase motor |



## Omni-Directional Warning Siren

112 & 118 dB, 8 Horn,  
Equal Length, Single Row  
EWS-V3 & EWS-V10 Series



### Tech Info:

Electrical Rating: Three phase motor: 7.5 HP 208/230/460V 60Hz, starting amps: 105, running amps: 19, Single phase motor, 7.5HP 208/230/460V 60Hz, starting amps: 204, running amps: 37 or Battery-powered with motor starter, charging system and battery box (EWS-V10)

Port tone frequency: 460 cps

Estimated sound circle: 5,000 ft. (1524 m) continuous - AC model, 7,000 ft. (2133.6 m) continuous - DC model  
dB @ 100 ft: 112 (Three and single phase models), 118 (Battery-powered model)

Mounts on: any solid horizontal surface or utility pole

The engineered horns of Edwards' newest model, the EWS-V3 Series, project omni-directional sound long distances. The EWS-V10 Series is a battery powered version. Both are single tone sirens, producing 460 cps. Exposed components are powder-coated metal for maximum durability. Fan and housing are non-corrosive cast aluminum. Max. diameter of both sirens is 56" (142.2 cm), max. height is 41" (104.1 cm), and the max. mounting base dimension is 19" (48.3 cm) square. Shipping weight of siren alone is 350 lbs. (158.8 kg). Accessories such as remote magnetic motor starters, one, two and three function control centers, radio controls and utility pole mounting brackets are available.

## Omni-Directional Warning Siren

115 dB, 8 Horn,  
Staggered Length, Single Row  
EWS-V4 Series



### Tech Info:

Electrical Rating: Three phase motor: 10 HP 208/230/460V 60 Hz, starting amps: 132, running amps: 24, Single phase motor: 10 HP 230V 60 Hz, starting amps: 258, running amps: 47

Port tone frequency: 460 cps

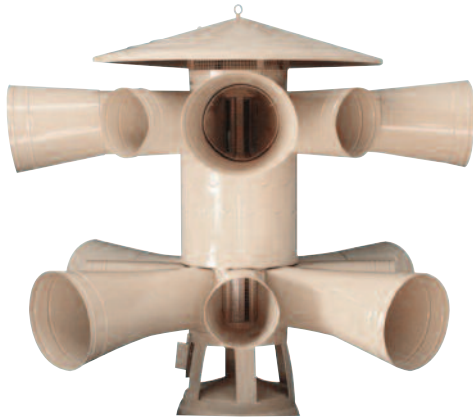
Estimated sound circle: 6000 ft. (1828.8 m) continuous  
dB @ 100 ft: 115 (30.5 m)

Mounts on: any solid horizontal surface or utility pole

Edwards' most popular mid-sized siren is a proven performer. Staged horn projectors help organize sound for even distribution over a large radius. Rated at 115 dB, the EWS-V4 Series produces continuous 360° coverage, a superior alternative to directional sirens. Available in single or three phase, the EWS-V4 Series is a single tone siren, producing a port tone frequency of 460 cps. All exposed components are powder-coated metal for maximum durability. Fan and housing are non-corrosive cast aluminum. Motors are rated for continuous duty. Maximum diameter is 78" (198.1 cm), maximum height is 56" (142.2 cm), and the maximum mounting base dimension is 19" (48.3 cm) square. Shipping weight of the siren alone is 325 lbs. (147.4 kg).

## Omni-Directional Warning Siren

120 dB, 8 Horn,  
Staggered Length, Dual Row  
EWS-V5 Series



### Tech Info:

Electrical Ratings: Three phase motor: 10 HP 208/230/460V 60 Hz, starting amps: 132, running amps: 24, Single phase motor: (2) 7.5 HP 230 V 60 Hz. motors (NOTE: Uses two starters), starting amps: 400, running amps: 74

Port tone frequency: 460 and 920 cps simultaneously

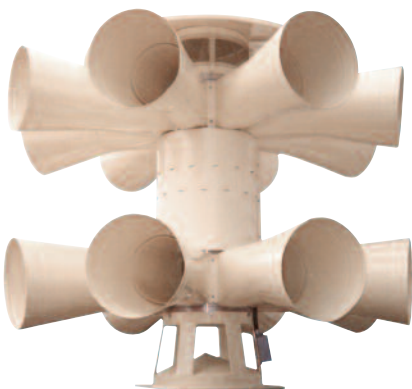
Estimated sound circle: 8,000 ft. (2438.4 m) continuous dB @ 100 ft: 115

Mounts on: any solid horizontal surface or utility pole

The EWS-V5 Series is our most affordable dual tone siren. Staged horn projectors provide continuous 360° coverage over a large, even area, an advantage over rotating sirens. Two rotors with different numbers of ports produce a 460 cps and a 920 cps signal simultaneously. All exposed components are powder-coated, zinc-plated, steel, for maximum durability. Fan and housing are non-corrosive cast aluminum. Maximum diameter of the siren is 78" (198.1 cm), maximum height is 65" (165.1 cm), and the maximum mounting base is 19" (48.3 cm) square. Shipping weight of the siren alone is 600 lbs. (272.2 kg). Accessories such as remote magnetic motor starters, one, two and three function control centers, radio controls and utility pole mounting brackets are available.

## Omni-Directional Warning Siren

122 & 125 dB, 8 Horn,  
Equal Length, Dual Row  
EWS-V6 & EWS-V9 Series



### Tech Info:

Electrical Rating: Three phase motor: 15 HP 208/230/460V 60Hz, starting amps: 198, running amps: 36 or Single phase motors (2): 7.5 HP 230V 60Hz (NOTE: Uses two starters), starting amps: 360, running amps: 72 or Battery powered with motor starter, charging system and battery box (EWS-V9)

Port tone frequency: 460 and 920 cps simultaneously

Estimated sound circle: 9400 ft. (2865 m) continuous (AC model), Estimated sound circle: 11,000 ft. (3353 m) continuous (DC model)

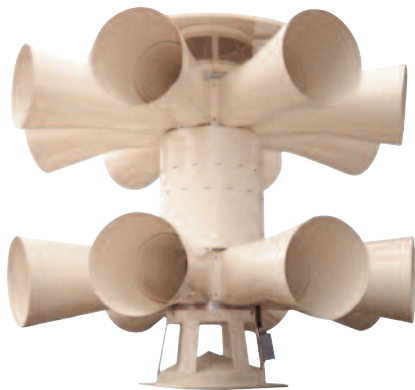
dB @ 100 ft: 122 (AC model), 125 (DC model)

Mounts on: any solid horizontal surface or utility pole

The EWS-V6 Series is a dual-tone, omni-directional siren with continuous 360° coverage – superior to rotating sirens. Two rotors produce a 460 cps and a 920 cps signal simultaneously. Exposed components are powder-coated, zinc-plated metal for maximum durability. The fan and housing are non-corrosive cast aluminum. Max. unit diameter is 78" (198.1 cm), max. height 65" (165.1 cm), and max. dimensions of the mounting base are 19" (48.3 cm) square. Siren only shipping weight is 750 lbs. (113.4 kg). Remote magnetic motor starters, one, two and three function control centers, radio controls and utility pole mounting brackets are available.

## Omni-Directional Warning Siren

124 dB, 8 Horn,  
Staggered Length, Dual Row  
EWS-V7 Series



### Tech Info:

Electrical Rating: Three phase motor: 20 HP 208/230/460V 60Hz, starting amps: 258, running amps: 47, Single phase motors (2): 10 HP 230V 60Hz (NOTE: Uses two starters), starting amps: 510, running amps: 94

Port tone frequency: 460 and 920 cps simultaneously

Estimated sound circle: 10,500 ft. (3200.4 m) continuous dB @ 100 ft: 124

Mounts on: any solid horizontal surface or utility pole

The EWS-V7 Series employs a continuous duty industrial motor to produce high decibel, continuous, 360° coverage, superior to a directional siren. Available in single or three phase power, the EWS-V7 Series is a dual tone siren, employing two rotors with different numbers of ports to produce a 460 cps and a 920 cps signal simultaneously. Exposed components are powder-coated metal for maximum durability. Fan and housing are non-corrosive cast aluminum. Maximum diameter is 78" (198.1 cm), maximum height is 56" (142.2 cm), and the maximum mounting base dimension is 19" (48.3 cm) square. Shipping weight of the siren alone is 750 lbs. (340.2 kg). Remote magnetic motor starters, one, two and three function control centers, radio controls and utility pole mounting brackets are available.

## Omni-Directional Warning Siren

127 dB, 5 Horn,  
Equal Length, Dual Row  
EWS-V8-3 Series



### Tech Info:

Electrical Rating: Three phase motor: 40 HP 208/230/460V 60 Hz, starting amps: 500, running amps: 96 (using 230V power)

Port tone frequency: 600 and 850 cps simultaneously

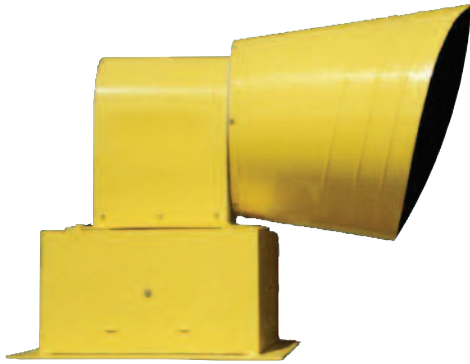
Estimated sound circle: 12,800 ft. (3901.4 m) continuous dB @ 100 ft: 127

Mounts on: any solid horizontal surface or utility pole

The EWS-V8-3, the largest omni-directional siren made, uses a continuous duty, industrial motor to produce 127 dB continuous 360° coverage, a superior alternative to directional sirens. Available in three phase power only, the EWS-V8-3 is a dual tone siren, employing two rotors, one producing a 600 cps and the other a 850 cps signal simultaneously. Exposed siren components are galvanized steel, which is powder coated for the most durable finish available. Fan and housing are non-corrosive cast aluminum. Max. diameter of the siren is 78" (198.1 cm), maxi. height is 67" (170.2 cm), and the max. mounting base size is 24" (61 cm) square. Shipping weight of the siren is 1,200 lbs. (544.3 kg). Remote magnetic motor starters, one, two and three function control centers, radio controls and utility pole mounting brackets are available.

# Rotating Warning Siren

127 dB  
EWS-11 Series



## Tech Info:

Port tone frequency: 460 and 920 cps

Self-contained electrical connections (battery not included)

Recommended batteries: Group 27 sealed lead acid maintenance-free (minimum), GelCel or AGM Optima

Blue Top Deep Cycle Marine

dB @ 100 ft: 127

Mounts on: any solid horizontal surface or utility pole

With the industry's largest drive motor, at 8 HP, this battery-powered, rotating siren delivers all the features of a premium warning device. At 460 Hz tone, the EWS-11's low pitch penetrates structures and obstacles, making the warning area more complete. Bullet-proof design and construction include a top of the line, maintenance-free rotating mechanism and hand-rolled, custom-formed projectors. Exposed siren components are heavy-gauge aluminum alloy and electro-plated, galvanized steel, powder coated for maximum durability. The siren's mass is centered over the mounting pole so no stabilizing wires are required. Total shipping weight is 385 lbs.. (174.6 kg). A thermostat-regulated siren heater, one, two and three function control centers, radio controls and utility pole mounting brackets are available.



## Airchime® Air Horns

### Indoor or Outdoor Use C Series



Airchime air horns are general signaling devices that generate sound by means of a vibrating diaphragm that modulates the flow of compressed air in a resonating projector. Their effective range is 1/4 mile. These indoor-outdoor signals are designed for mounting on air piping supplying between 50 and 150 PSIG. The horns feature corrosion-resistant cast bronze bodies, stainless steel diaphragms, machined or spun bells, and single or dual frequency.



#### Tech Info:

| Cat. No. | Description                                               | frequency. (Hz) | dB(c) at 10 ft | dB(c) at 100 ft | Air Consumption        | Air Pressure          | Inlet NPT    | Length         | Net Wt        |
|----------|-----------------------------------------------------------|-----------------|----------------|-----------------|------------------------|-----------------------|--------------|----------------|---------------|
|          |                                                           |                 |                |                 | Cu Ft/Sec (Liters/Sec) | PSIG (Kg/Sq CM)       |              |                |               |
| CA       | Single tone matched bell                                  | 745             | 124            | 104             | .25 (7.1)              |                       | 3/8" (9.5mm) | 4 3/4" (120mm) | 3 lb (1.3 kg) |
| CA-4     | Omni-directional 4 model CA horns                         | 745             | 124            | 104             | 1 (28.4)               |                       | 3/8" (9.5mm) | 4 3/4" (120mm) | 3 lb (1.3 kg) |
| CB       | Single tone spun bell                                     | 523             | 117            | 97              | .25 (7.1)              | 50 - 150 (5.3 - 10.5) | 3/8" (9.5mm) | 4 3/4" (120mm) | 3 lb (1.3 kg) |
| C-1E     | Single tone spun bell                                     | 246             | 117            | 97              | .25 (7.1)              |                       | 3/8" (9.5mm) | 4 3/4" (120mm) | 3 lb (1.3 kg) |
| C-12     | Dual tone spun bell                                       | 246/311         | 118            | 98              | .50 (14.2)             |                       | 3/8" (9.5mm) | 4 3/4" (120mm) | 3 lb (1.3 kg) |
| AC30106  | Post bracket for Air Horn Cat. No's CB, C-1E, C-12 and CA |                 |                |                 |                        |                       |              |                |               |

## Airchime® Air Horns

### Single or Dual Tone K Series



Airchime K Series air horns are general signaling devices that generate sound by means of a vibrating diaphragm that modulates the flow of compressed air in a resonating projector. Their effective range is 3/4 mile. These indoor-outdoor signals are designed for mounting on air piping supplying between 50 and 150 PSIG. The horns feature die-cast aluminum construction, hermetically sealed diaphragms and volume adjustment via air pressure. They offer single or dual tones and a wide range of frequencies.



#### Tech Info:

| Cat. No. | Description                                                                                           | frequency. (Hz) | dB(c) at 10 ft | dB(c) at 100 ft | Air Consumption        |  | Inlet NPT   | Length          | Net Wt              |
|----------|-------------------------------------------------------------------------------------------------------|-----------------|----------------|-----------------|------------------------|--|-------------|-----------------|---------------------|
|          |                                                                                                       |                 |                |                 | Cu Ft/Sec (Liters/Sec) |  |             |                 |                     |
| K-1      | Single tone, cast base, die cast aluminum body, 3-piece hermetically sealed stainless steel diaphragm | 311             | 134            | 114             | .50 (14)               |  | 1/2" (13mm) | 16 1/2" (419mm) | 7 1/2 lb (3.4 kg)   |
| K-2      | Same as above                                                                                         | 370             | 130            | 110             | .50 (14)               |  | 1/2" (13mm) | 12 7/8" (327mm) | 6 1/2 lb (2.9 kg)   |
| K-3      | Same as above                                                                                         | 470             | 133            | 113             | .50 (14)               |  | 1/2" (13mm) | 10 1/4" (260mm) | 6 1/4 lb (2.8 kg)   |
| K-5      | Same as above                                                                                         | 622             | 132            | 112             | .50 (14)               |  | 1/2" (13mm) | 7 1/2" (191mm)  | 5 lb (2.2 kg)       |
| K-12     | Dual tone incorporating K1 & K2 with base                                                             | 311/370         | 135            | 115             | 1 (28)                 |  | 1/2" (13mm) | 16 1/2" (419mm) | 14 1/2 lb (6.5 kg)  |
| K-25     | Dual tone incorporating K2 & K5 with base                                                             | 370/622         | 135            | 115             | 2 (56)                 |  | 1/2" (13mm) | 12 7/8" (327mm) | 12 lb (5.4 kg)      |
| K-12R12  | Dual tone incorporating (2) K-12 Air Horns reversed for 180° coverage with base                       | 311/370         | 135            | 115             | 2 (56)                 |  | 3/4" (19mm) | 16 1/2" (327mm) | 24 1/2 lb (11.1 kg) |
| K-25R25  | Dual tone incorporating (2) K-25 Air Horns reversed for 180° coverage with base                       | 370/622         | 136            | 116             | 2 (56)                 |  | 3/4" (19mm) | 12 7/8" (327mm) | 55 lb (24.9 kg)     |

Airchime is a registered trademark of Airchime Manufacturing Co. Ltd.

## Airchime® Air Horns

### Single or Dual Tone, 360° of coverage K4 Series



Airchime K4 Series air horns are general signaling devices that generate sound by means of a vibrating diaphragm that modulates the flow of compressed air in a resonating projector. They project sound in four directions (every 90°) for total area coverage. Their effective range is 3/4 mile. These indoor-outdoor signals are designed for mounting on air piping supplying between 50 and 150 PSIG. The horns feature die-cast aluminum construction, hermetically sealed diaphragms and volume adjustment via air pressure. They offer single or dual tones and a wide range of frequencies.

#### Tech Info:

| Cat. No. | Description                                                                    | frequency (Hz) | dB(c) at 10 ft | dB(c) at 100 ft | Air Consumption<br>Cu Ft/Sec<br>(Liters/Sec) | Dimensions                   | Net Wt             |
|----------|--------------------------------------------------------------------------------|----------------|----------------|-----------------|----------------------------------------------|------------------------------|--------------------|
| K4-1     | Single tone incorporating (4) K-1 air horns at 90° for 360° coverage with base | 311            | 135            | 115             | 2<br>(56)                                    | 27" x 27"<br>(685mm x 685mm) | 36 lb<br>(16.3 kg) |
| K4-12    | Dual tone incorporating (4) K-12 air horns at 90° for 360° coverage with base  | 311/370        | 136            | 116             | 4<br>(112)                                   | 27" x 27"<br>(685mm x 685mm) | 62 lb<br>(28.1 kg) |
| K4-25    | Dual tone incorporating (4) K-25 air horns at 90° for 360° coverage with base  | 370/622        | 136            | 116             | 4<br>(112)                                   | 23" x 23"<br>(584mm x 584mm) | 55 lb<br>(24.9 kg) |

## Airchime® Air Horns

### Marine Rated KM Series



Airchime KM Series air horns are general signaling devices that generate sound by means of a vibrating diaphragm that modulates the flow of compressed air in a resonating projector. The marine rated signal's design naturally drains moisture away from the diaphragm seat. Their effective range is 1-1/4 mile. These signals are designed for mounting on air piping supplying between 50 and 150 PSIG. The single tone horns feature die-cast marine aluminum construction, a solid bronze diaphragm head, and a patented, three-piece hermetically sealed diaphragm.

#### Tech Info:

| Cat. No. | frequency. (Hz) | dB(c) at 10 ft | dB(c) at 100 ft | Air Consumption<br>Cu Ft/Sec<br>(Liters/Sec) | Length              | Net Wt             |
|----------|-----------------|----------------|-----------------|----------------------------------------------|---------------------|--------------------|
| KM-135   | 135             | 141            | 121             | 2.4<br>(67)                                  | 42 1/8"<br>(1070mm) | 42 lb<br>(19 kg)   |
| KM-200   | 200             | 138            | 118             | 2.5<br>(43)                                  | 26 3/4"<br>(679mm)  | 32 lb<br>(14.5 kg) |
| KM-250   | 250             | 139            | 119             | 1.3<br>(38)                                  | 21 3/8"<br>(543mm)  | 32 lb<br>(14.5 kg) |

## Airchime® Air Horns

### Marine Rated KMJ Series



Airchime KMJ Series air horns are self-contained air horns for use in applications where an air supply is not available or desirable. The KMJ Series consist of a motor directly connected to a rotary compressor. The marine rated signal's design naturally drains moisture away from the diaphragm seat. Their effective range is 1/4 mile. The single tone horns feature die-cast marine aluminum construction and stainless steel fasteners. They are compliant with Coast Guard Regulations for Class IV and Class III vessel lengths (up to 75m).

#### Tech Info:

| Cat.<br>No.     | frequency<br>(Hz) | dB(c)<br>at 10 ft | dB(c)<br>at 100 ft | Air Consumption           |                      | Net<br>Wt        |
|-----------------|-------------------|-------------------|--------------------|---------------------------|----------------------|------------------|
|                 |                   |                   |                    | Cu Ft/Sec<br>(Liters/Sec) | Length               |                  |
| KMJ-4SC75120VAC | 311               | 124               | 104                | 3.8<br>(1.9)              | 31 3/4"<br>(810mm)   | 55 lb<br>(25 kg) |
| KMJ-4SC7524VDC  | 311               | 124               | 104                | 3.8<br>(1.9)              | 29"<br>(736.6mm)     | 55 lb<br>(25 kg) |
| KMJ-5SC120VAC   | 390               | 121               | 101                | 3.6<br>(1.8)              | 26 1/4"<br>(666.7mm) | 55 lb<br>(25 kg) |
| KMJ-5SC24VDC    | 391               | 121               | 101                | 3.6<br>(1.8)              | 26 1/4"<br>(666.7mm) | 75 lb<br>(34 kg) |



# Principles of Sound

Rapid variations in air pressure cause vibrations in the eardrum. These vibrations are perceived as sound. Essentially, sound has the following basic characteristics: frequency or pitch, and magnitude or volume (sound pressure).

The rate at which variations in air pressure occurs is referred to as frequency and is expressed in cycles per second (cps) or Hertz (Hz). (The human ear is capable of hearing sounds produced in the 20 to 20,000 Hertz range.)

## The Effect of Distance on Sound Pressure

Sound pressure levels in excess of 120 dB may be painful. Above 150 dB they can result in ear damage. Under atmospheric conditions, the maximum sound pressure level attainable is 194 dB.

Sound pressure fluctuations diminish or die out with increasing distance from the sound source. A distance must generally be specified along with the dB rating to fully describe a sound.

The chart below shows how the sound pressure level changes with distance under ideal conditions. Sound absorbing or reflecting materials in the vicinity of the sound can modify the curve.

The sound pressure level changes 6 dB for each halving or doubling of distance. For a change in distance of ten times, the sound pressure level changes 20 dB.

The Nomograph can be used to calculate dB over distance.

## Typical dB Levels When Selecting Audible Signals

In specifying a signaling device, all of the above characteristics should be considered along with as many factors concerning the application as can be gathered. Selecting the proper device for each signaling application need not be difficult if the following points are observed.

**1. Signal Function.** Basically, the types of functions to which signals can be applied are: general alarm or emergency, start and dismissal, paging or coding, localized danger, and indication.

The first step in selecting a signal is to carefully define this function. Is the signal to be a warning, a call, or an instruction? Will it be used to protect life or property? How much time will be available to take action?

Obviously, the more critical the application, the more startling the signal generated must be. A horn is generally the most startling signal. Its rasping tone commands immediate attention. A single stroke bell can be used for paging applications where danger is not at hand.

A small buzzer may serve to notify a machine operator that a particular operation is completed.

**2. Uniform Sound Distribution:** Usually, better signal distribution can be achieved by carefully positioning a number of smaller signals throughout a given area than by centrally locating a single large unit.

**3. Ambient Sound Conditions:** The frequency of the signaling device selected should be as different from the background noise as possible. The signal should override this noise by a minimum of six decibels. Usually, the noisier the area, the louder the signal required and the greater the number required. Over the years, horns and bells have been the most popular signals because their varied tones can be heard over most ambient conditions. See Table 1 below for typical dB levels associated with various activities.

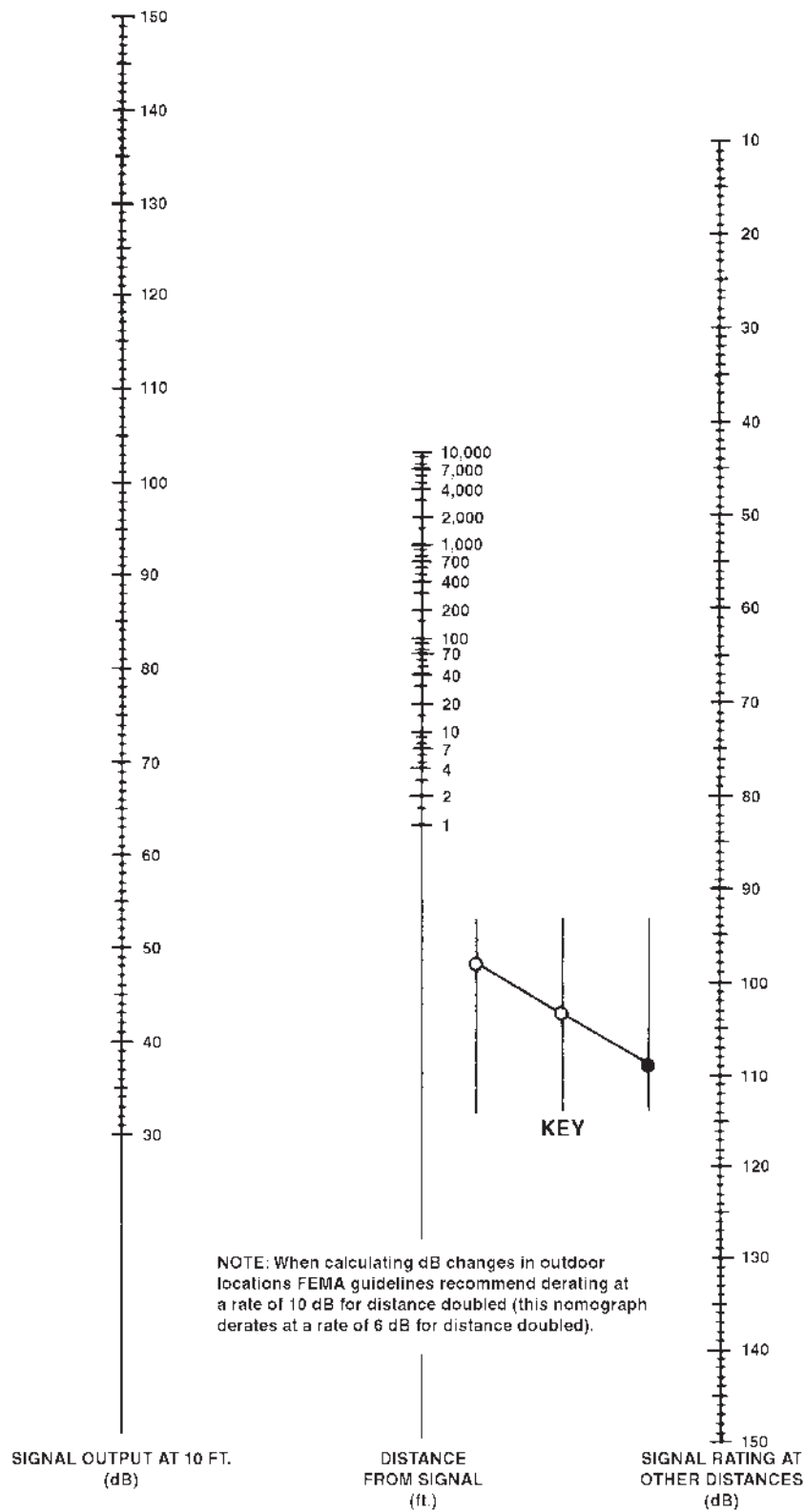
**4. Size of Area to be Covered:** The larger the area, the louder the signal required or the greater the number of units required. Better coverage is frequently obtained by the use of several signals of lower dB rating than by the use of one very loud signal, providing the signals can be positioned to advantage.

**5. Mounting Considerations:** The surface that the signal is mounted on can markedly affect the signal's performance. A horn, for example, should be rigidly mounted to a sturdy surface so that all of its energy is directed into the sound output and not absorbed by the wall. A buzzer, however, can sound much louder if mounted on a resonant surface because it will act as a sound board for the buzzer.

FOR NEW SIGNAL SOLUTIONS PLEASE  
VISIT US ON OUR WEB SITE AT:  
[www.edwardssignaling.com](http://www.edwardssignaling.com)

Table 1

| Reaction   | dB      | Source                        |
|------------|---------|-------------------------------|
| Very loud  | 130-140 | Jack hammer at 4 feet         |
| Loud       | 80-90   | Stamping factory              |
| Moderate   | 70-75   | Normal conversation at 3 feet |
| Quiet      | 40-50   | Hospital room                 |
| Very Quiet | 20-30   | Whisper at 3 feet             |



| Item No.                       | Description         | Voltage          | Color |
|--------------------------------|---------------------|------------------|-------|
| POST BRACKET FOR AIR HORNS     |                     |                  |       |
| AC30106                        | CB, C-1E, C-12, CA  |                  |       |
| EXPLOSION PROOF ADAPTAHORN     |                     |                  |       |
| B-KM-8130-G5                   |                     | 24V AC 50/60 Hz  |       |
| B-KM-8130-N5                   |                     | 120V AC 50/60 Hz |       |
| EXPLOSION PROOF ADAPTABUZZER   |                     |                  |       |
| B-KM-8140-G5                   |                     | 24V AC 50/60 Hz  |       |
| B-KM-8140-N5                   |                     | 120V AC 50/60 Hz |       |
| B-KM-8140-R5                   |                     | 240V AC 50/60 Hz |       |
| MINEGUARD™ MINE BUZZER         |                     |                  |       |
| B-8140-M-G5                    |                     | 24V AC 50/60 Hz  |       |
| B-8140-M-N5                    |                     | 120V AC 50/60 Hz |       |
| B-8140-M-R5                    |                     | 240V AC 50/60 Hz |       |
| EXPLOSION PROOF ADAPTABUZZER   |                     |                  |       |
| B-8141-G1                      |                     | 24V DC           |       |
| MINEGUARD™ MINE BUZZER         |                     |                  |       |
| B-8141-M-G1                    |                     | 24V DC           |       |
| B-8141-M-S1                    |                     | 250V DC          |       |
| WEATHERPROOF ADAPTABUZZER      |                     |                  |       |
| B-8698-E1                      |                     | 12V DC           |       |
| B-8698-G1                      |                     | 24V DC           |       |
| B-8698-P1                      |                     | 125V DC          |       |
| B-8698-S1                      |                     | 250V DC          |       |
| B-8699-G5                      |                     | 24V AC 50/60 Hz  |       |
| B-8699-N5                      |                     | 120V AC 50/60 Hz |       |
| WEATHERPROOF ADAPTAHORN        |                     |                  |       |
| B-N-8546-E5                    |                     | 12V AC 50/60 Hz  |       |
| B-N-8546-G5                    |                     | 24V AC 50/60 Hz  |       |
| B-N-8546-N5                    |                     | 120V AC 50/60 Hz |       |
| B-N-8546-R5                    |                     | 240V AC 50/60 Hz |       |
| B-8526-G1                      |                     | 24V DC           |       |
| B-8526-P1                      |                     | 125V DC          |       |
| B-8526-S1                      |                     | 250V DC          |       |
| B-N-8590-E5                    | WITH DUAL PROJECTOR | 12V AC 50/60 Hz  |       |
| B-N-8590-G5                    | WITH DUAL PROJECTOR | 24V AC 50/60 Hz  |       |
| B-N-8590-N5                    | WITH DUAL PROJECTOR | 120V AC 50/60 Hz |       |
| B-8599-E1                      | WITH DUAL PROJECTOR | 12V DC           |       |
| B-8599-G1                      | WITH DUAL PROJECTOR | 24V DC           |       |
| B-8599-P1                      | WITH DUAL PROJECTOR | 125V DC          |       |
| B-8599-S1                      | WITH DUAL PROJECTOR | 250V DC          |       |
| AIR HORN                       |                     |                  |       |
| CA                             |                     |                  |       |
| CA-4                           | OMNI-DIRECTIONAL    |                  |       |
| CB                             | WITH SPUN BELL      |                  |       |
| C-1E                           | SINGLE TONE         |                  |       |
| C-12                           | DUAL TONE           |                  |       |
| OMNI-DIRECTIONAL WARNING SIREN |                     |                  |       |
| EWS-V1                         |                     |                  |       |
| EWS-V1-3                       |                     |                  |       |
| EWS-V2                         |                     |                  |       |
| EWS-V2-3                       |                     |                  |       |
| EWS-V3                         |                     |                  |       |
| EWS-V3-3                       |                     |                  |       |
| EWS-V4                         |                     |                  |       |
| EWS-V4-3                       |                     |                  |       |
| EWS-V5                         |                     |                  |       |
| EWS-V5-3                       |                     |                  |       |
| EWS-V6                         |                     |                  |       |
| EWS-V6-3                       |                     |                  |       |
| EWS-V7                         |                     |                  |       |
| EWS-V7-3                       |                     |                  |       |
| EWS-V8-3                       |                     |                  |       |
| EWS-V9                         |                     |                  |       |
| EWS-V10                        |                     |                  |       |
| EWS-11                         |                     |                  |       |

| Item No.                   | Description                   | Voltage            | Color |
|----------------------------|-------------------------------|--------------------|-------|
| AIR HORN                   |                               |                    |       |
| K-1                        |                               | 311 HZ             |       |
| K-2                        |                               | 370 HZ             |       |
| K-3                        |                               | 470 HZ             |       |
| K-5                        |                               | 622 HZ             |       |
| K-12                       | DUAL TONE AIR                 | 311/370 HZ         |       |
| K-12R12                    | DUAL TONE 2 K-12 HORNS        |                    |       |
| K-25                       | DUAL TONE                     | 470/622 HZ         |       |
| K-25R25                    | DUAL TONE 2 K-25 HORNS        |                    |       |
| K4-1                       | 4 K-1 HORNS                   |                    |       |
| K4-12                      | 4 K-12 HORNS                  |                    |       |
| K4-25                      | 4 K-25 HORNS                  |                    |       |
| MOTOR DRIVEN KLAXET SIGNAL |                               |                    |       |
| KH1000                     |                               | 12V DC             |       |
| KH1001                     |                               | 24V DC             |       |
| KH1008                     |                               | 120V AC 50/60 Hz   |       |
| KH1010                     |                               | 240V AC 50/60 Hz   |       |
| KH1040                     |                               | 12V DC             |       |
| KH1041                     |                               | 24V DC             |       |
| KH1044                     |                               | 24V AC 50/60 Hz    |       |
| KH1045                     |                               | 120V AC 50/60 Hz   |       |
| MANUAL HORN                |                               |                    |       |
| KH1292                     |                               |                    |       |
| MOTOR DRIVEN HORN          |                               |                    |       |
| KH2000                     |                               | 12V DC             |       |
| KH2001                     |                               | 24V DC             |       |
| KH2004                     |                               | 120V AC 50/60 Hz   |       |
| KH2006                     |                               | 240V AC 50/60 Hz   |       |
| KH2030                     |                               | 12V DC             |       |
| KH2031                     |                               | 24V DC             |       |
| KH2032                     |                               | 110V AC 50/60 Hz   |       |
| KH2033                     |                               | 230V AC 50/60 Hz   |       |
| MONO SERIES                |                               |                    |       |
| KI2101                     |                               | 12V AC/DC          |       |
| KI2102                     |                               | 24V AC/DC          |       |
| KI2105                     |                               | 110V AC/DC         |       |
| KI2108A                    |                               | 230V AC/DC         |       |
| KI2408                     |                               | 230V AC            |       |
| AIRCHIME® AIR HORN         |                               |                    |       |
| KM-135                     | 141 DB AT 10 FT               |                    |       |
| KM-200                     | 138 DB AT 10 FT               |                    |       |
| KM-250                     | 139 DB AT 10 FT               |                    |       |
| KMJ-4SC75120VAC            | MARINE RATED, 124 DB AT 10 FT | 120V AC            |       |
| KMJ-4SC752VDC              | MARINE RATED, 124 DB AT 10 FT | 24V DC             |       |
| KMJ-5SC120VAC              | MARINE RATED, 121 DB AT 10 FT | 120V AC            |       |
| KMJ-5SC24VDC               | MARINE RATED, 121 DB AT 10 FT | 24V DC             |       |
| BELL                       |                               |                    |       |
| 13-1AB                     | 1 INCH                        | 5-10V DC, 6-12V AC |       |
| 13-1G1                     | 1 INCH                        | 24V DC             |       |
| 13-1G5                     | 1 INCH                        | 24V AC             |       |
| 13-2AB                     | 2 INCH                        | 5-10V DC, 6-12V AC |       |
| 13-2G1                     | 2 INCH                        | 24V DC             |       |
| 13-2G5                     | 2 INCH                        | 24V AC             |       |
| 13-3AB                     | 3 INCH                        | 5-10V DC, 6-12V AC |       |
| 13-3G1                     | 3 INCH                        | 24V DC             |       |
| 13-3G5                     | 3 INCH                        | 24V AC             |       |

| Item No.                                   | Description | Voltage            | Color           |
|--------------------------------------------|-------------|--------------------|-----------------|
| <b>BUZZER</b>                              |             |                    |                 |
| 15-0AJ                                     | SIZE 0      | 3-8V DC, 6-10V AC  |                 |
| 15-0G1                                     | SIZE 0      | 24V DC             |                 |
| 15-0G5                                     | SIZE 0      | 24V AC             |                 |
| 15-1AB                                     | SIZE 1      | 5-10V DC, 6-12V AC |                 |
| 15-1E1                                     | SIZE 1      | 12V DC             |                 |
| 15-1G1                                     | SIZE 1      | 24V DC             |                 |
| 15-1G5                                     | SIZE 1      | 24V AC             |                 |
| 15-2AB                                     | SIZE 2      | 5-10V DC, 6-12V AC |                 |
| 15-2G1                                     | SIZE 2      | 24V DC             |                 |
| 15-2G5                                     | SIZE 2      | 24V AC             |                 |
| 15-3AB                                     | SIZE 3      | 5-10V DC, 6-12V AC |                 |
| 15-3E1                                     | SIZE 3      | 12V DC             |                 |
| 15-3G1                                     | SIZE 3      | 24V DC             |                 |
| 15-3G5                                     | SIZE 3      | 24V AC             |                 |
| <b>GENERAL PURPOSE BELL</b>                |             |                    |                 |
| 55-4AM                                     | 4 INCH      | 6V DC, 8V AC       |                 |
| 55-4G5                                     | 4 INCH      | 24V AC             |                 |
| 55-6AM                                     | 6 INCH      | 6V DC, 8V AC       |                 |
| 55-6G5                                     | 6 INCH      | 24V AC             |                 |
| <b>BUZZER</b>                              |             |                    |                 |
| 115-1AC                                    | SIZE 1      | 8-12V AC           |                 |
| 115-1G5                                    | SIZE 1      | 24V AC             |                 |
| 115-2AC                                    | SIZE 2      | 8-12V AC           |                 |
| 115-2G5                                    | SIZE 2      | 24V AC             |                 |
| 115-4AC                                    | SIZE 4      | 8-12V AC           |                 |
| 115-4G5                                    | SIZE 4      | 24V AC             |                 |
| <b>MIDI VIBRATING HORN</b>                 |             |                    |                 |
| 118-E1                                     |             | 12V DC             |                 |
| 118-G1                                     |             | 24V DC             |                 |
| 123A-E5                                    |             | 12V AC 60 Hz       |                 |
| 123A-G5                                    |             | 24V AC 60 Hz       |                 |
| 123A-N5                                    |             | 120V AC 60 Hz      |                 |
| <b>3 IN BELL MONITOR</b>                   |             |                    |                 |
| 156G-3AM                                   |             | 6-8V DC, 8-10V AC  |                 |
| 156G-3AX                                   |             | 12-18V DC          |                 |
| 156G-3G1                                   |             | 24V DC             |                 |
| 156G-3G5                                   |             | 24V AC             |                 |
| 156G-3J1                                   |             | 32V DC             |                 |
| 156G-4AM                                   |             | 6-8V DC, 8-10V AC  |                 |
| 156G-4G1                                   |             | 24V DC             |                 |
| 156G-4G5                                   |             | 24V AC             |                 |
| 156G-6AM                                   |             | 6-8V DC, 8-10V AC  |                 |
| 156G-6AW                                   |             | 20-24V DC          |                 |
| 156G-6G1                                   |             | 24V DC             |                 |
| 156G-6G5                                   |             | 24V AC             |                 |
| <b>MOTOR DRIVEN SIREN</b>                  |             |                    |                 |
| 315A-AH                                    |             |                    | Red             |
| 315A-AH-SS                                 | STAINLESS   |                    | Stainless Steel |
| <b>SINGLE STROKE BELL</b>                  |             |                    |                 |
| 332-4G5                                    | 4 INCH      | 24V AC             | Gray            |
| 332-4N5                                    | 4 INCH      | 120V AC 50/60 Hz   | Gray            |
| 332-6E5                                    | 6 INCH      | 12V AC 50/60 Hz    | Gray            |
| 332-6G5                                    | 6 INCH      | 24V AC 50/60 Hz    | Gray            |
| 332-6N5                                    | 6 INCH      | 120V AC 50/60 Hz   | Gray            |
| 332-6R5                                    | 6 INCH      | 240V AC 50/60 Hz   | Gray            |
| 332-10G5                                   | 10 INCH     | 24V AC 50/60 Hz    | Gray            |
| 332-10N5                                   | 10 INCH     | 120V AC 50/60 Hz   | Gray            |
| <b>SINGLE STROKE BELL, EXPLOSION PROOF</b> |             |                    |                 |
| 332EX-6G5                                  | 6 INCH      | 24V AC 50/60 Hz    | Gray            |
| 332EX-6N5                                  | 6 INCH      | 120V AC 50/60 Hz   | Gray            |
| 332EX-6R5                                  | 6 INCH      | 240V AC 50/60 Hz   | Gray            |
| 332EX-10G5                                 | 10 INCH     | 24V AC 50/60 Hz    | Gray            |
| 332EX-10N5                                 | 10 INCH     | 120V AC 50/60 Hz   | Gray            |
| 332EX-10R5                                 | 10 INCH     | 240V AC 50/60 Hz   | Gray            |

| Item No.                                   | Description               | Voltage          | Color |
|--------------------------------------------|---------------------------|------------------|-------|
| <b>SINGLE STROKE BELL</b>                  |                           |                  |       |
| 333-4G1                                    | 4 INCH                    | 24V DC           | Gray  |
| 333-6E1                                    | 6 INCH                    | 12V DC           | Gray  |
| 333-6G1                                    | 6 INCH                    | 24V DC           | Gray  |
| 333-6P1                                    | 6 INCH                    | 125V DC          | Gray  |
| 333-10G1                                   | 10 INCH                   | 24V DC           | Gray  |
| 333-10P1                                   | 10 INCH                   | 125V DC          | Gray  |
| <b>SINGLE STROKE BELL, EXPLOSION PROOF</b> |                           |                  |       |
| 333EX-6G1                                  | EXPLOSION PROOF - 6 INCH  | 24V DC           | Gray  |
| 333EX-6P1                                  | EXPLOSION PROOF - 6 INCH  | 125V DC          | Gray  |
| 333EX-10G1                                 | EXPLOSION PROOF - 10 INCH | 24V DC           | Gray  |
| <b>VIBRATING BELL</b>                      |                           |                  |       |
| 340-4E5                                    | 4 INCH                    | 12V AC 50/60 Hz  | Gray  |
| 340-4FM                                    | 4 INCH                    | 16V AC 50/60 Hz  | Gray  |
| 340-4G5                                    | 4 INCH                    | 24V AC 50/60 Hz  | Gray  |
| 340-4N5                                    | 4 INCH                    | 120V AC 50/60 Hz | Gray  |
| 340-4R5                                    | 4 INCH                    | 240V AC 50/60 Hz | Gray  |
| 340-6E5                                    | 6 INCH                    | 12V AC 50/60 Hz  | Gray  |
| 340-6FM                                    | 6 INCH                    | 16V AC 50/60 Hz  | Gray  |
| 340-6G5                                    | 6 INCH                    | 24V AC 50/60 Hz  | Gray  |
| 340-6N5                                    | 6 INCH                    | 120V AC 50/60 Hz | Gray  |
| 340-6R5                                    | 6 INCH                    | 240V AC 50/60 Hz | Gray  |
| 340-10G5                                   | 10 INCH                   | 24V AC 50/60 Hz  | Gray  |
| 340-10N5                                   | 10 INCH                   | 120V AC 50/60 Hz | Gray  |
| 340-10R5                                   | 10 INCH                   | 240V AC 50/60 Hz | Gray  |
| <b>VIBRATING BUZZER</b>                    |                           |                  |       |
| 340A-G5                                    |                           | 24V AC 50/60 Hz  | Gray  |
| 340A-N5                                    |                           | 120V AC 50/60 Hz | Gray  |
| 340A-R5                                    |                           | 240V AC 50/60 Hz | Gray  |
| <b>VIBRATING BELL, EXPLOSION PROOF</b>     |                           |                  |       |
| 340EX-6G5                                  | 6 INCH                    | 24V AC 50/60 Hz  | Gray  |
| 340EX-6N5                                  | 6 INCH                    | 120V AC 50/60 Hz | Gray  |
| 340EX-6R5                                  | 6 INCH                    | 240V AC 50/60 Hz | Gray  |
| 340EX-8N5                                  | 8 INCH                    | 120V AC 50/60 Hz | Gray  |
| 340EX-10G5                                 | 10 INCH                   | 24V AC 50/60 Hz  | Gray  |
| 340EX-10N5                                 | 10 INCH                   | 120V AC 50/60 Hz | Gray  |
| 340EX-10R5                                 | 10 INCH                   | 240V AC 50/60 Hz | Gray  |
| <b>VIBRATING BUZZER</b>                    |                           |                  |       |
| 343A-E1                                    |                           | 12V DC           |       |
| 343A-G1                                    |                           | 24V DC           |       |
| 343A-M1                                    |                           | 75V DC           |       |
| 343A-P1                                    |                           | 125V DC          |       |
| <b>BRASS BELL</b>                          |                           |                  |       |
| 432-G5                                     | 2 1/2 INCH                | 24V AC 50/60 Hz  | Gray  |
| 432-N5                                     | 2 1/2 INCH                | 120V AC 50/60 Hz | Gray  |
| <b>VIBRATING BELL</b>                      |                           |                  |       |
| 435-4C1                                    | 4 INCH                    | 6V DC            | Gray  |
| 435-4E1                                    | 4 INCH                    | 12V DC           | Gray  |
| 435-4G1                                    | 4 INCH                    | 24V DC           | Gray  |
| 435-4J1                                    | 4 INCH                    | 32V DC           | Gray  |
| 435-4P1                                    | 4 INCH                    | 125V DC          | Gray  |
| 435-6C1                                    | 6 INCH                    | 6V DC            | Gray  |
| 435-6E1                                    | 6 INCH                    | 12V DC           | Gray  |
| 435-6G1                                    | 6 INCH                    | 24V DC           | Gray  |
| 435-6J1                                    | 6 INCH                    | 32V DC           | Gray  |
| 435-6K1                                    | 6 INCH                    | 48V DC           | Gray  |
| 435-6P1                                    | 6 INCH                    | 125V DC          | Gray  |
| 435-6S1                                    | 6 INCH                    | 250V DC          | Gray  |
| 435-8C1                                    | 8 INCH                    | 6V DC            | Gray  |
| 435-8E1                                    | 8 INCH                    | 12V DC           | Gray  |
| 435-8G1                                    | 8 INCH                    | 24V DC           | Gray  |
| 435-8P1                                    | 8 INCH                    | 125V DC          | Gray  |
| 435-10E1                                   | 10 INCH                   | 12V DC           | Gray  |
| 435-10G1                                   | 10 INCH                   | 24V DC           | Gray  |
| 435-10P1                                   | 10 INCH                   | 125V DC          | Gray  |
| 435-10S1                                   | 10 INCH                   | 250V DC          | Gray  |

| Item No.                                | Description     | Voltage               | Color |
|-----------------------------------------|-----------------|-----------------------|-------|
| <b>VIBRATING BELL, EXPLOSION PROOF</b>  |                 |                       |       |
| 435DEX-6G1                              | 6 INCH          | 24V DC                | Gray  |
| 435DEX-8G1                              | 8 INCH          | 24V DC                | Gray  |
| 435DEX-10G1                             | 10 INCH         | 24V DC                | Gray  |
| 435EX-6C1                               | 6 INCH          | 6V DC                 | Gray  |
| 435EX-6E1                               | 6 INCH          | 12V DC                | Gray  |
| 435EX-6G1                               | 6 INCH          | 24V DC                | Gray  |
| 435EX-6K1                               | 6 INCH          | 48V DC                | Gray  |
| 435EX-6P1                               | 6 INCH          | 125V DC               | Gray  |
| 435EX-6S1                               | 6 INCH          | 250V DC               | Gray  |
| 435EX-8G1                               | 8 INCH          | 24V DC                | Gray  |
| 435EX-8K1                               | 8 INCH          | 48V DC                | Gray  |
| 435EX-8P1                               | 8 INCH          | 125V DC               | Gray  |
| 435EX-8S1                               | 8 INCH          | 250V DC               | Gray  |
| 435EX-10E1                              | 10 INCH         | 12V DC                | Gray  |
| 435EX-10G1                              | 10 INCH         | 24V DC                | Gray  |
| 435EX-10P1                              | 10 INCH         | 125V DC               | Gray  |
| <b>FIRE ALARM BELL, EXPLOSION PROOF</b> |                 |                       |       |
| 439DEX-6AW                              | 6 INCH          | 20-24V DC             | Gray  |
| 439DEX-8AW                              | 8 INCH          | 20-24V DC             | Gray  |
| 439DEX-10AW                             | 10 INCH         | 20-24V DC             | Gray  |
| <b>FLUSH-CALL STRAP-MOUNTED SIGNALS</b> |                 |                       |       |
| 660                                     | RINGCALL        | 8-10V AC              |       |
| 661                                     | BUZACALL        | 8-10V AC              |       |
| 662                                     | TUCALL          | 8-10V AC              |       |
| <b>GENERAL PURPOSE BELLS</b>            |                 |                       |       |
| 720                                     | DIXIE BELL      | 6-8V AC, 3-4V DC      |       |
| 725                                     | DIXIE BUZZER    | 6V AC                 |       |
| 730                                     | DIXIE BUZABEL   | 6-8V AC, 3-6V DC      |       |
| 740                                     | NUBEL           | 3-6V DC               |       |
| 744                                     | NUBEL           | 3-6V DC               |       |
| <b>SURFACE MOUNT HORN</b>               |                 |                       |       |
| 867-AQ                                  |                 | 24V AC 50/60 Hz or DC |       |
| 867-N5                                  |                 | 120V AC 50/60 Hz      |       |
| 868-AQ                                  | WEATHERPROOF    | 24V AC 50/60 Hz or DC |       |
| 868-N5                                  | WEATHERPROOF    | 120V AC 50/60 Hz      |       |
| <b>FLUSH MOUNT HORN</b>                 |                 |                       |       |
| 869-AQ                                  |                 | 24V AC 50/60 Hz or DC |       |
| 869-N5                                  |                 | 120V AC 50/60 Hz      |       |
| 869D-G1                                 | DIODE POLARIZED | 24V DC                |       |
| 870-G5                                  | ADAPTAHORN      | 24V AC 50/60 Hz       |       |
| 870-N5                                  | ADAPTAHORN      | 120V AC 50/60 Hz      |       |
| 870-R5                                  | ADAPTAHORN      | 240V AC 50/60 Hz      |       |
| 871-E1                                  | ADAPTAHORN      | 12V DC                |       |
| 871-G1                                  | ADAPTAHORN      | 24V DC                |       |
| 871-K1                                  | ADAPTAHORN      | 48V DC                |       |
| 871-P1                                  | ADAPTAHORN      | 125V DC               |       |
| 871-S1                                  | ADAPTAHORN      | 250V DC               |       |
| <b>PANEL MOUNT HORN</b>                 |                 |                       |       |
| 870P-E5                                 | ADAPTAHORN      | 12V AC 50/60 Hz       |       |
| 870P-G5                                 | ADAPTAHORN      | 24V AC 50/60 Hz       |       |
| 870P-N5                                 | ADAPTAHORN      | 120V AC 50/60 Hz      |       |
| 870P-R5                                 | ADAPTAHORN      | 240V AC 50/60 Hz      |       |
| 871P-C1                                 | ADAPTAHORN      | 6V DC                 |       |
| 871P-E1                                 | ADAPTAHORN      | 12V DC                |       |
| 871P-G1                                 | ADAPTAHORN      | 24V DC                |       |
| 871P-J1                                 | ADAPTAHORN      | 32V DC                |       |
| 871P-P1                                 | ADAPTAHORN      | 125V DC               |       |
| 871P-S1                                 | ADAPTAHORN      | 250V DC               |       |

| Item No.                           | Description     | Voltage          | Color |
|------------------------------------|-----------------|------------------|-------|
| <b>SINGLE PROJECTOR HORN</b>       |                 |                  |       |
| 872-E5                             | ADAPTAHORN      | 12V AC 50/60 Hz  |       |
| 872-G5                             | ADAPTAHORN      | 24V AC 50/60 Hz  |       |
| 872-N5                             | ADAPTAHORN      | 120V AC 50/60 Hz |       |
| 872-R5                             | ADAPTAHORN      | 240V AC 50/60 Hz |       |
| 873-G1                             | ADAPTAHORN      | 24V DC           |       |
| 873-K1                             | ADAPTAHORN      | 48V DC           |       |
| 873-P1                             | ADAPTAHORN      | 125V DC          |       |
| 873-S1                             | ADAPTAHORN      | 250V DC          |       |
| <b>DOUBLE PROJECTOR HORN</b>       |                 |                  |       |
| 872DPO-G5                          | ADAPTAHORN      | 24V AC 50/60 Hz  |       |
| 872DPO-N5                          | ADAPTAHORN      | 120V AC 50/60 Hz |       |
| 872DPO-R5                          | ADAPTAHORN      | 240V AC 50/60 Hz |       |
| 873DPO-E1                          | ADAPTAHORN      | 12V DC           |       |
| 873DPO-G1                          | ADAPTAHORN      | 24V DC           |       |
| 873DPO-J1                          | ADAPTAHORN      | 32V DC           |       |
| 873DPO-P1                          | ADAPTAHORN      | 125V DC          |       |
| 873DPO-S1                          | ADAPTAHORN      | 250V DC          |       |
| <b>ADAPTAHORN GRILLE</b>           |                 |                  |       |
| 874-E5                             |                 | 12V AC 50/60 Hz  |       |
| 874-G5                             |                 | 24V AC 50/60 Hz  |       |
| 874-N5                             |                 | 120V AC 50/60 Hz |       |
| 874-R5                             |                 | 240V AC 50/60 Hz |       |
| 875-C1                             |                 | 6V DC            |       |
| 875-E1                             |                 | 12V DC           |       |
| 875-G1                             |                 | 24V DC           |       |
| 875-P1                             |                 | 125V DC          |       |
| 875-S1                             |                 | 250V DC          |       |
| <b>WEATHERPROOF ADAPTAHORN</b>     |                 |                  |       |
| 876-E5                             |                 | 12V AC 50/60 Hz  |       |
| 876-G5                             |                 | 24V AC 50/60 Hz  |       |
| 876-N5                             |                 | 120V AC 50/60 Hz |       |
| 876-R5                             |                 | 240V AC 50/60 Hz |       |
| 877-E1                             |                 | 12V DC           |       |
| 877-G1                             |                 | 24V DC           |       |
| 877-J1                             |                 | 32V DC           |       |
| 877-K1                             |                 | 48V DC           |       |
| 877-P1                             |                 | 125V DC          |       |
| 877-S1                             |                 | 250V DC          |       |
| <b>ADAPTAHORN, EXPLOSION PROOF</b> |                 |                  |       |
| 878DEX-N5                          | DIODE POLARIZED | 120V AC 50/60 Hz |       |
| 878EX-E5                           |                 | 12V AC 50/60 Hz  |       |
| 878EX-G5                           |                 | 24V AC 50/60 Hz  |       |
| 878EX-N5                           |                 | 120V AC 50/60 Hz |       |
| 878EX-R5                           |                 | 240V AC 50/60 Hz |       |
| 879DEX-G1                          | DIODE POLARIZED | 24V DC           |       |
| 879EX-C1                           |                 | 6V DC            |       |
| 879EX-E1                           |                 | 12V DC           |       |
| 879EX-G1                           |                 | 24V DC           |       |
| 879EX-J1                           |                 | 32V DC           |       |
| 879EX-K1                           |                 | 48V DC           |       |
| 879EX-P1                           |                 | 125V DC          |       |
| <b>STRAP MOUNTED BUZZER</b>        |                 |                  |       |
| 1064-G5                            |                 | 24V AC 50/60 Hz  |       |
| 1064-N5                            |                 | 120V AC 50/60 Hz |       |
| 1064-R5                            |                 | 240V AC 50/60 Hz |       |
| 1065-G5                            |                 | 24V AC 50/60 Hz  |       |
| 1065-N5                            |                 | 120V AC 50/60 Hz |       |
| 1065-R5                            |                 | 240V AC 50/60 Hz |       |



| Item No.                                | Description                                 | Voltage                           | Color |
|-----------------------------------------|---------------------------------------------|-----------------------------------|-------|
| <b>HIGH VOLTAGE BUZZER</b>              |                                             |                                   |       |
| 1066-G5                                 |                                             | 24V AC 50/60 Hz                   |       |
| 1066-N5                                 |                                             | 120V AC 50/60 Hz                  |       |
| 1066-R5                                 |                                             | 240V AC 50/60 Hz                  |       |
| <b>AUDIO SIGNAL CONVERTER</b>           |                                             |                                   |       |
| 5510M-25Y6                              | 25V RMS TO 10V RMS                          | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5510M-70Y6                              | 70V RMS TO 10V RMS                          | 120-240V AC 50/60 Hz, 125-250V DC |       |
| <b>DUOTRONIC HORN/SIREN</b>             |                                             |                                   |       |
| 5520-AQ                                 |                                             | 24V AC 50/60 Hz or DC             |       |
| 5520-AS                                 |                                             | 12V AC 50/60 Hz or DC             |       |
| 5520-N5                                 |                                             | 120V AC 50/60 Hz                  |       |
| 5520-P1                                 |                                             | 125V DC                           |       |
| 5520-R5                                 |                                             | 240V AC 50/60 Hz                  |       |
| 5520D-AW                                |                                             | 20-24V DC                         |       |
| 5520D-N5                                |                                             | 120V AC 50/60 Hz                  |       |
| <b>DUOTRONIC HORN</b>                   |                                             |                                   |       |
| 5521-S1                                 |                                             | 250V DC                           |       |
| 5522M-AQ                                | EXPLOSIONPROOF                              | 24V AC 50/60 Hz or DC             |       |
| 5522M-Y6                                | EXPLOSIONPROOF                              | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5522MD-AW                               | EXPLOSIONPROOF, DIODE POLARIZED, FIRE ALARM | 20-31V DC                         |       |
| <b>DUOTRONIC SIREN, EXPLOSION PROOF</b> |                                             |                                   |       |
| 5523M-AQ                                |                                             | 24V AC 50/60 Hz or DC             |       |
| 5523M-Y6                                |                                             | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5523MD-AW                               | DIODE POLARIZED, FIRE ALARM                 | 20-31V DC                         |       |
| <b>ADAPTATONE</b>                       |                                             |                                   |       |
| 5530M-24AQ                              | 1 INPUT, 1 OUTPUT                           | 24V AC 50/60 Hz or DC             |       |
| 5530M-24N5                              | 1 INPUT, 1 OUTPUT                           | 120V AC 50/60 Hz                  |       |
| 5530M-24Y6                              | 1 INPUT, 1 OUTPUT                           | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5530M-120N5                             | 1 INPUT, 1 OUTPUT                           | 120V AC 50/60 Hz                  |       |
| 5530M-120Y6                             | 1 INPUT, 1 OUTPUT                           | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5530M-485Y6                             | 1 INPUT, 1 OUTPUT, RS485                    | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5530MD-24AW                             | 1 INPUT, 1 OUTPUT, DIODE POLARIZED          | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5530MHV-24AQ                            | 1 INPUT, 1 OUTPUT, HIGH VOLUME              | 24V AC 50/60 Hz or DC             |       |
| 5530MHV-24Y6                            | 1 INPUT, 1 OUTPUT, HIGH VOLUME              | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5530MHV-120Y6                           | 1 INPUT, 1 OUTPUT, HIGH VOLUME              | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5530MHV-485Y6                           | 1 INPUT, 1 OUTPUT, HIGH VOLUME, RS485       | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5530MV-485Y6                            | 1 INPUT, 1 OUTPUT, VOICE                    | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5531M-24AQ                              | 4 INPUTS, 4 OUTPUTS                         | 24V AC 50/60 Hz or DC             |       |
| 5531M-24N5                              | 4 INPUTS, 4 OUTPUTS                         | 120V AC 50/60 Hz                  |       |
| 5531M-24Y6                              | 4 INPUTS, 4 OUTPUTS                         | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5531M-120N5                             | 4 INPUTS, 4 OUTPUTS                         | 120V AC 50/60 Hz                  |       |
| 5531M-120Y6                             | 4 INPUTS, 4 OUTPUTS                         | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5531MHV-24AQ                            | 4 INPUTS, 4 OUTPUTS, HIGH VOLUME            | 24V AC 50/60 Hz or DC             |       |
| 5531MHV-24Y6                            | 4 INPUTS, 4 OUTPUTS, HIGH VOLUME            | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5531MHV-120Y6                           | 4 INPUTS, 4 OUTPUTS, HIGH VOLUME            | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5531MV-24N5                             | 4 INPUTS, 4 OUTPUTS, VOICE                  | 120V AC 50/60 Hz                  |       |
| 5531MV-24Y6                             | 4 INPUTS, 4 OUTPUTS, VOICE                  | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5531MV-120N5                            | 4 INPUTS, 4 OUTPUTS, VOICE                  | 120V AC 50/60 Hz                  |       |
| <b>REMOTE SPEAKER/AMPLIFIER</b>         |                                             |                                   |       |
| 5532M-AQ                                |                                             | 24V AC 50/60 Hz or DC             |       |
| 5532M-N5                                |                                             | 120V AC 50/60 Hz                  |       |
| 5532M-Y6                                |                                             | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5532M-25Y6                              | 25V RMS AUDIO                               | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5532M-70Y6                              | 70V RMS AUDIO                               | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5532M-485Y6                             | RS485                                       | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5532MD-10AW                             | FIRE ALARM, 10V RMS AUDIO                   | 20-24V DC                         |       |
| 5532MD-25AW                             | FIRE ALARM, 25V RMS AUDIO                   | 20-24V DC                         |       |
| 5532MD-70AW                             | FIRE ALARM, 70V RMS AUDIO                   | 20-24V DC                         |       |
| 5532MHV-AQ                              | HIGH VOLUME                                 | 24V AC 50/60 Hz or DC             |       |
| 5532MHV-Y6                              | HIGH VOLUME                                 | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5532MHV-485Y6                           | HIGH VOLUME, RS485                          | 120-240V AC 50/60 Hz, 125-250V DC |       |

| Item No.                                  | Description                                 | Voltage                           | Color |
|-------------------------------------------|---------------------------------------------|-----------------------------------|-------|
| <b>ADAPTATONE, EXPLOSION PROOF</b>        |                                             |                                   |       |
| 5533M-AQ                                  | 2 INPUTS, 2 OUTPUTS                         | 24V AC 50/60 Hz or DC             |       |
| 5533M-Y6                                  | 2 INPUTS, 2 OUTPUTS                         | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5533MD-AW                                 | 2 INPUTS, 2 OUTPUTS, FIRE ALARM             | 20-24V DC                         |       |
| <b>ADAPTATONE</b>                         |                                             |                                   |       |
| 5536M-24AQ                                | 3 INPUT, 3 OUTPUT, STAND ALONE              | 24V AC 50/60 Hz or DC             |       |
| 5536M-24N5                                | 3 INPUT, 3 OUTPUT, STAND ALONE              | 120V AC 50/60 Hz                  |       |
| 5536M-24Y6                                | 3 INPUT, 3 OUTPUT, STAND ALONE              | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5536MHV-24AQ                              | 3 INPUT, 3 OUTPUT, STAND ALONE, HIGH VOLUME | 24V AC 50/60 Hz or DC             |       |
| 5536MHV-24Y6                              | 3 INPUT, 3 OUTPUT, STAND ALONE, HIGH VOLUME | 120-240V AC 50/60 Hz, 125-250V DC |       |
| <b>REMOTE AMPLIFIER</b>                   |                                             |                                   |       |
| 5535-N5                                   | REMOTE AMPLIFIER                            | 120V AC 50/60 Hz                  |       |
| <b>STONE GENERATOR</b>                    |                                             |                                   |       |
| 5540M-24AQ                                | 4 INPUTS, 4 OUTPUTS                         | 24V AC 50/60 Hz or DC             |       |
| 5540M-24N5                                | 4 INPUTS, 4 OUTPUTS                         | 120V AC 50/60 Hz                  |       |
| 5540M-24Y6                                | 4 INPUTS, 4 OUTPUTS                         | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5540M-120N5                               | 4 INPUTS, 4 OUTPUTS                         | 120V AC 50/60 Hz                  |       |
| 5540M-120Y6                               | 4 INPUTS, 4 OUTPUTS                         | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5540M-485Y6                               | 4 INPUTS, 4 OUTPUTS, RS485                  | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5540MP-24Y6                               | 3 INPUTS, 3 OUTPUTS, WITH PAGING            | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5540MV-24N5                               | 4 INPUTS, 4 OUTPUTS, VOICE                  | 120V AC 50/60 Hz                  |       |
| 5540MV-24Y6                               | 4 INPUTS, 4 OUTPUTS, VOICE                  | 120-240V AC 50/60 Hz, 125-250V DC |       |
| 5540MV-485Y6                              | 4 INPUTS, 4 OUTPUTS, VOICE, RS485           | 120-240V AC 50/60 Hz, 125-250V DC |       |
| <b>MILLENNIUM SYSTEM MASTER</b>           |                                             |                                   |       |
| 5541M-Y6                                  |                                             | 120-240V AC 50/60 Hz, 125-250V DC |       |
| <b>REMOTE PAGING UNIT</b>                 |                                             |                                   |       |
| 5542RPU                                   |                                             |                                   |       |
| 5542RPU-M                                 | WITH MICROPHONE                             |                                   |       |
| <b>SPEAKER/AMPLIFIER, EXPLOSION PROOF</b> |                                             |                                   |       |
| 5545M-AQ                                  |                                             | 24V AC 50/60 Hz or DC             |       |
| 5545M-Y6                                  |                                             | 120-240V AC 50/60 Hz, 125-250V DC |       |
| <b>REENTRANT WALL SPEAKER</b>             |                                             |                                   |       |
| 5547-15W                                  |                                             |                                   |       |
| <b>CONE CEILING SPEAKER</b>               |                                             |                                   |       |
| 5551B-2W                                  |                                             |                                   |       |
| <b>MINI-MI MULTI-TONE SIGNAL</b>          |                                             |                                   |       |
| 5560M-AQ                                  |                                             | 24V AC 50/60 Hz or DC             | White |
| 5560MD-FJ                                 | DIODE POLARIZED                             | 20-24V DC                         | White |
| 5560MDR-FJ                                | DIODE POLARIZED                             | 20-24V DC                         | Red   |
| 5560MDS-FJ                                | W/STROBE, DIODE POLARIZED                   | 20-24V DC                         | White |
| 5560MDSR-FJ                               | W/STROBE, DIODE POLARIZED                   | 20-24V DC                         | Red   |
| 5560M-N5                                  |                                             | 120V AC 50/60 Hz                  | White |
| 5560MS-AQ                                 | W/STROBE                                    | 24V AC 50/60 Hz or DC             | White |
| 5560MS-N5                                 | W/STROBE                                    | 120V AC 50/60 Hz                  | White |
| <b>HEAVY-DUTY BACKUP ALARM</b>            |                                             |                                   |       |
| 8001-EG                                   | 87-102 DB                                   | 12-24V DC                         |       |
| 8002-EU                                   | 97 DB                                       | 12-36V DC                         |       |

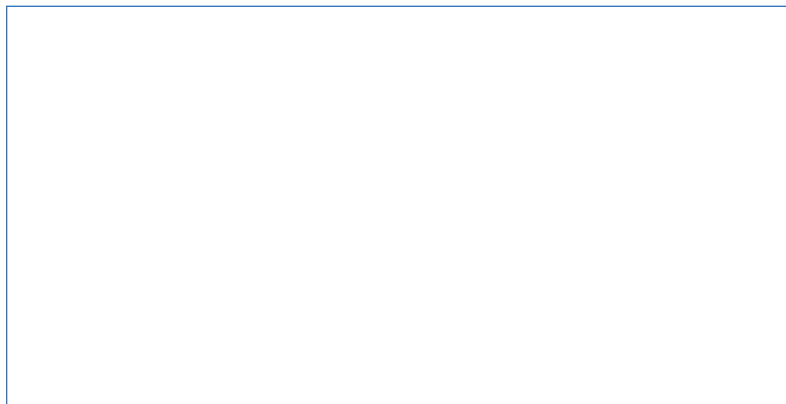


### **Audible Signal Solutions — You'll Like What You Hear**

We became the leader in audible signals by listening to customer and market needs. That's how we developed the leading product lineup in the world.

For 133 years, we've provided solutions like field program-mable electronic horns and sirens , and remote paging systems. From general purpose bells and buzzers to Hazardous Location products, we're got the right signal solution. With a difference you can hear and performance you can trust.

Represented by:



41 Woodford Avenue  
Plainville, CT 06062  
Phone: (800) 336-4206  
Fax: (800) 454-2363  
email: [lit.request@edwardssignaling.com](mailto:lit.request@edwardssignaling.com)