



# Warning System Ancillaries - Audio

*A comprehensive range of audio ancillaries for Alarm and Occupant Warning and Intercommunication Systems. From microphones to speakers, sounders and bells, all your Warning System requirements are available, ensuring your ability to supply product to meet your customers' needs.*

## GX93 Mini Horn Sounder



The GX93 is ideal for applications where a dependable alarm signal is required in hotels, dormitories, apartments, and other installations. The unit is shipped with J1 inserted for an ISO8201 T3 tone pattern. Remove J1 for continuous horn signal. The GX93 is intended for indoor installation only. This appliance is not weather-proofed for outdoor applications.

### Technical Specifications

Operating Voltage	8 to 33Vdc
Rated Current	22mA @ 24Vdc
Sound Pressure Level	77 to 85dB @ 3m
Output Tone (selectable)	T3 or Continuous
Operating Temp	0 to +49°C
Dimensions (HWD)	122x53x19mm
<b>Part Number</b>	GX93

## FP0864 Mini Speaker



The FP0864 Mini Speaker is a compact 100V speaker suitable for use with tone warning systems. It is intended as a more compact, albeit less powerful, alternative to a ceiling mounted cone speaker, primarily for use in residential situations. The Mini Speaker mounts on a standard flush or surface box.

### Technical Specifications

Equivalent Power	1.25W @ 100V line
Sound Pressure Level	82 to 90dBA @ 1m*
Cable Size	up to 4mm <sup>2</sup>
Dimensions (HWD)	119x74x41 mm
<b>Part Number</b>	FP0864
*Adjustable in 4 levels	

## FP0875 Isolation Amplifier



The FP0875 Isolation Amplifier connects to an existing 100V speaker line and reproduces this signal at up to 50W load on a separate supervised 100V line. It is suitable for use with speech and music as well as with warning tones. The 100V output line from the amplifier is electrically isolated from the input 100V line, so noise or other signals on the output line are kept separate and do not affect the input line. The Isolation Amplifier requires a nominal supply of 27Vdc.

### Technical Specifications

Supply Voltage	19.6V to 28.8Vdc
Quiescent Current	57mA <sup>1</sup>
Active Current	2.2A (50W @ 27Vdc)
Input Signal	100V rms @ 1W max.
Output Voltage	100V rms
Output Power	50W rms <sup>2</sup> / 25W <sup>3</sup>
Dimensions (HWD)	240x295x80 mm
<b>Part Number</b>	FP0875

1. No speech or background music  
2. Tones 3. Speech/music

## Paging Console



**FP0539 Paging Console**

There are two styles of PA Paging Console, a PC based interface and a desktop 30 zone unit. Both are designed to complement the QE90 Evacuation System. The desktop Paging Console connects to the QE90 via a 6 wire



**FP0902 PC Paging Console interface**

link. Multiple Paging Consoles may be "daisy chained" around a building complex, or located side by side to allow control of more than 30 zones. Each zone has an individual LED indicator to show its status and an area for labelling to suit customer requirements. The PC Paging Console comprises of Windows software and an interface unit from PC to

QE90. It can support 480 QE90 zones and 10 groups of zones.

Note: Where a PC forms part of an evacuation system - ie, using the PC Paging Console, a UPS should be used.

### Technical Specifications

Power Consumption	
No zones selected	<50mA
All zones selected	<150mA
Output Voltage	300 to 700mV RMS
Microphone Voltage	1 to 100mV
Frequency Response	100 to 10kHz ±3dB
Distortion	10mV input, <2%
Dimensions (HWD)	80x410x210mm
Weight	4kg

### Part Numbers

FP0539	Paging Console
FP0902	Paging Console I/F for PC
SU0168/169	Microphones

(Microphones ordered separately).

## SU0168 Gooseneck Microphone



The SU0168 Gooseneck Paging Microphone is a dynamic microphone with a cardioid polar pattern. This elegant gooseneck microphone features smooth, brilliant sound with excellent ambient noise control and feedback rejection. Its screw base is suitable for mounting on equipment or permanent desk mounting. Supplied with mounting kit for FP0539 Paging Console. It can be used with FP0902.

### Technical Specifications

Polar Pattern	Cardioid (unidirectional)
Output Impedance	600 Ohm (bal. @ 1kHz)
Rated Sensitivity	-80dB (1kHz, 0dB=1 V/Pa)
Frequency Response	150Hz-12kHz
<b>Part Number</b>	SU0168

## SU0169 Desktop Microphone



The SU0169 Paging microphone is a desktop dynamic microphone with a cardioid polar pattern. It features a short-off press to talk switch with an open-off type extra switch. It has low handling noise and a 600 ohm balanced output impedance. The SU0169 is finished in a grey ABS body with a zinc plated wire mesh head. Compatible with FP0539 and FP0902 Paging Consoles.

### Technical Specifications

Polar Pattern	Cardioid (unidirectional)
Output Impedance	600 Ohm (bal. @ 1kHz)
Rated Sensitivity	-58dB (1kHz, 0dB=1 V/Pa)
Frequency Response	100 Hz to 10kHz
Cable	2 core shielded + 2 core
Cable Length	2.5m
Termination	5 pin DIN plug
Dimensions (HWD)	215 x 100 x 150mm
<b>Part Number</b>	SU0169

## PTT Dynamic Microphone



This handheld dynamic microphone is fitted with a press-to-talk button. It is suitable for plugging into T-Gen 50 and QE90 to provide emergency PA and recording of digitised speech message. It has a 4 way plug.

### Part Numbers

ME0213	Mic, DIN plug to suit QE90, ECP9002
ME0290	Mic, flat plug to suit T-GEN 50, QE90, ECP9702



## BELL004 200mm Bell

### Technical Specifications

Operating Voltage	24Vdc
Rated Current	60mA @ 24V
Sound Output	95dBA @ 1m
Operating Temp	-10 to +50°C
Colour	Red
Weight	1420g
<b>Part Number</b>	BELL004

## EA0404 Warden Intercom Point Phone



Designed specifically for use in Emergency Warning Systems, Warden Intercom Point (WIP) phones are used to communicate between floor wardens and the master Emergency Evacuation Panel.

When the handset is lifted, the WIP phone automatically rings the Emergency Evacuation Panel.

When the Panel calls the WIP, the call tone sounds through the speaker in the body of the phone. When the handset is lifted, it automatically switches from the speaker in the body to the speaker in the handset.

Compatible with Vigilant QE90 Emergency Intercommunication System.

### Technical Specifications

Call Tone	> 80dB 1W/1m
Terminations	Screw Terminals
Material	ABS
Dimensions (HWD)	210x80x72mm
Weight	410g
CSIRO ActivFire Listed	afp-524
<b>Part Number</b>	EA0404

## DB3 Flameproof Horn Sounder



This lightweight, flameproof sounder is intended for use in potentially explosive gas and dust atmospheres such as may be found in the mining, oil, gas and petrochemical industries. It has been designed with high ingress protection and has stainless steel fittings to ensure a corrosion free product. A tapered flamepath is used.

### Technical Specifications

Operating Voltage	24Vdc
Rated Current	380mA @ 24Vdc
Sound Pressure Level	115dB(A) @ 1m (tone dprnd.)
Tones	27 user selectable
Terminals	6 x 2.5mm <sup>2</sup>
Temperature	
EExd IIC T5 Z1,2	-20°C to +55°C
UL - AExd IIC T4	-55°C to +55°C
Weight	6kg
Ingress Protection	IP66
<b>Part Number</b>	576.501.043

## HS-15EEXIINT



EX II 3 G  
Certified by/Certification code/Number:  
NEMKO / EEx nA II T6 / 03 ATEX3286

## 100V Line Ex Rated Speakers

Specifications	HS-15EEXIINT	HP-20EEXIINT
Line Voltage	100V	100V
Power Rating	15 W	20 W
Taps	0.8,2,4,5,7.5,15	1.5,2,5,6,10,20
SPL 1W/1m	107 dB	110 dB
SPL @ rated power	118 dB	122dB
Effective freq. range(Hz)	370-7000	310-8000
Dispersion -6dB 1&4kHz	150° / 40°	115° / 30°
Material	Alum.	Polyamide
Weight	2.8 kg	2.3 kg
IP-rating	IP67	IP67
Ambient Temp (°C)	-50 to +50	-50 to +50
Dimensions (L x dia)	247x163dia	286x237dia
<b>Part Numbers</b>	HS-15EEXIINT	HP-20EEXIINT



EX II GD Zone 22  
Certified by/Certification code/Number:  
NEMKO / EEx nA II T3 / 03ATEX3568

## EA0012



The EA0012 ABS horn speaker has a screwdriver adjustable power tap switch and a 22µF bipolar isolation capacitor to permit line monitoring. A 4 core loop through flying lead is provided.

## 100V Line 10W Horn Speakers

Specifications	EA0012	EA0017
Power Rating	10W	
Power Taps	1.25, 2.5, 5, 7.5, 10W	
SPL (10W@1m)	115dB	110dB
Freq Resp (Hz)	300 - 13k	225 - 14k
Dispersion Angle	110°	
Dimensions (Ø x mm)	180 x 270	150 x 200
Ingress Protection	IP66	IP65
Material	ABS	Aluminium
<b>Part Numbers</b>	EA0012	EA0017



This aluminium epoxy coated speaker features a plug and socket combination with flying lead terminations. Power taps are selected by the position of the plug.

## EA0017

## Multi-Tone Sounder



The Banshee Multi-Tone Sounder is a compact unit capable of 32 tones, incorporating a volume control allowing 3 volume settings for each tone. The Banshee is easily installed with a bayonet push and fit feature. It is fitted with robust loop through terminations.

### Technical Specifications

Operating Voltage	9 to 30Vdc
Operating Current	7mA (24Vdc - T3 tone)
Sound Pressure Level	103 dB(A) (T3 tone)
Operating Temp	-40°C to +70°C
Dimensions	mm (HWD)
<b>Part Number</b>	576.501.005T

## EA0016 100V Line 20W Horn Speaker



The EA0016 plastic horn speaker is designed primarily for distributed paging systems. It has clear speech reproduction to ensure intelligibility of announcements. Power taps are adjustable to suit the power rating of the amplifier or the area to be covered. The speakers are fitted with a 22µF bipolar capacitor for line monitoring and a 4 core flying lead for loop-in and loop-out connections. The speaker has nickel-chromium plated mild steel hardware, making it ideal for aquatic centre installations.

### Technical Specifications

Power Rating	20W
Power Taps	5, 7.5, 10, 15, 20W
Sound Pressure Level	108dB 1W @ 1m 121dB 20W @ 1m
Frequency Response	275Hz to 10kHz
Dispersion Angle	70°
Dimensions	212 diameter x 285mm
Ingress Protection	IP66
<b>Part Number</b>	EA0016

## EA0005 'One Shot' 100V Line 5W Speaker



The 'One Shot' PA speaker and grille is designed to install easily into 10 to 13mm ceilings. Simply drill the required size hole, terminate the wiring and push the speaker into the ceiling until it snaps into place. It is designed to meet the requirements of AS 2220.1, with a transformer cover and 22µF capacitor. The transformer has 5 power taps from 0.33 to 5W and a 4 way terminal block

### Technical Specifications

Power Rating	5 W
Power Taps	0.33, 0.6, 1.25, 2.5, 5W
Sound Pressure Level	92dB 1W @ 1m
Frequency Response	100Hz - 15kHz
Ceiling Cutout	140mm diameter
<b>Part Number</b>	EA0005

## EA0006 100V Line Ceiling Recessed 10W Speaker



The EA0006 speakers feature a tapped line transformer with cover, 5 position terminal strip and line supervisory capacitor. EA0006 is a 100mm diameter cone speaker suitable for concealed mounting in ceilings. The speakers comply with the electrical safety requirements of AS 60950.



EA0101

### Technical Specifications

Power Rating	10W
Power Taps	0.33, 0.5, 1, 2.5, 5W
Sound Pressure Level	92dB
Freq. Resp. (Hz @-6dB)	75-20k
Line Voltage	100V
Dimensions (mm)	100 dia..

### Part Numbers

EA0006	Speaker
EA0102	Grille
EA0104	Screw Cover pkt 80

## EA0007 100V Line Ceiling Recessed 10W Speaker



The EA0007 speakers feature a tapped line transformer with cover, 5 position terminal strip and line supervisory capacitor. EA0007 is a 200mm diameter cone speaker suitable for recessed mounting. The speakers comply with the electrical safety requirements of AS 60950.

### Technical Specifications

Power Rating	10W
Power Taps	0.33, 0.5, 1, 2.5, 5W
Sound Pressure Level	93dB
Freq. Resp. (Hz @-6dB)	50-20k
Line Voltage	100V
Dimensions (mm)	200 dia..

### Part Numbers

EA0007	Speaker
EA0101	Grille
EA0104	Screw Cover pkt 80

## EA0700 100V Line Surface Mount 5W Speaker



This speaker has been designed to mount directly to the underside of concrete slabs or inaccessible ceilings using concealed internal fixings. Once mounted, the grille and speaker assembly simply screw to the housing. Cable entry can be from the rear or via surface mounted conduit. The speaker's transformer can be tapped at 0.33 to 5W for 100 volt line PA systems. A 22µF bi-polar capacitor for line supervising applications is included.

### Technical Specifications

Power Rating	5W
Power Taps	0.3, 0.6, 1.25, 2.5, 5W
Sound Pressure Level	87dB, 1W @ 1m
Frequency Response	100Hz - 20kHz
Dimensions	220 diameter x 55mm
<b>Part Number</b>	EA0700