



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 |
| Dims (HWD) mm | 122x53x19 (114x72x13) |
| Part Numbers | GX93R (GX93W) |

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 ² |
| Dimensions (HWD) | 119x74x41 mm |
| Part Number | 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 ¹ |
| Active Current | 2.2A (50W @ 27Vdc) |
| Input Signal | 100V rms @ 1W max. |
| Output Voltage | 100V rms |
| Output Power | 50W rms ² / 25W ³ |
| Dimensions (HWD) | 240x295x80 mm |
| Part Number | 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 |
| Part Number | 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 |
| Part Number | SU0169 |

Handheld 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 |



BELL01 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 |
| Part Number | BELL01 |

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 |
| Part Number | 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 @ 1m (tone dpndt.) |
| Tones | 27 user selectable |
| Terminals | 6 x 2.5mm ² |
| 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 |
| Part Number | 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 |
| Part Numbers | HS-15EEXIINT | HP-20EEXIINT |



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

EA0012 - 10W



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 Horn Speakers

| Specifications | EA0012 | EA0017 |
|-----------------------------|--------------------------------------|-----------|
| Power Rating | 10W | 30W |
| Power Taps (W) ¹ | 1.25, 2.5, 5, 7.5, 10, 15, 30 | |
| SPL (max.W@1m) | 115dB | 125dB |
| Freq Resp (Hz) | 300 - 14k | |
| Dispersion Angle | 110° | |
| Dims (Ø x mm) | 180 x 270 | 350 x 270 |
| Ingress Protection | IP66 | IP55 |
| Material | ABS | Aluminium |
| Part Numbers | EA0012 | EA0017 |

1. Power taps in bold for EA0017



This aluminium epoxy coated speaker features screw terminal connections. Power taps are selected by a rotary switch.

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 |
| Part Number | 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 |
| Part Number | 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 |
| Part Number | EA0700 |



tel: 1300 552 559
simplexfire.au@tycoint.com
www.simplexfire.com.au

Tyco reserves the right to alter specifications without notice in line with its policy of continuous product improvement.

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