

# E2xS112 Alarm Sounder/Horn

**The hazardous area E2xS112 alarm sounder is ATEX certified for Zone 2 applications and also UL approved for Class I Div 2 applications.**

With a nominal sound level output of 116dB(A) at 1 metre and a choice of 45 alarm tones and 3 remotely selectable stages the E2xS112 alarm sounder horn is suitable for all general signalling duties.

The E2x range features enclosures manufactured from lightweight, corrosion proof PPS and high impact, fire retardant ABS re-entrant flare horns; both of which are suitable for the harshest of environments.

## Features:

- Automatic synchronisation on multi-sounder system.
- Very large termination area.
- Ratchet adjustable stainless steel 'U' bracket.

## Approvals:

- ATEX certificate: DEMKO 06 ATEX 0421554, EN 50021: 1999
- UL File ref: E230764

## Specification:

|                     |  |
|---------------------|--|
| Maximum output:     | 116dB(A) @ 1 metre                                       |
| Nominal output:     | 113dB(A) @ 1m +/- 3dB - Tone 2                           |
| No. of tones:       | 45 (UKOOA/PFEER compliant)                               |
| No. of stages:      | 3  |
| Volume control:     | Max. 113dB(A); Min. 105dB(A) - Tone 2                    |
| Effective range:    | 100m @ 1KHz  |
| Voltages DC:        | 24vdc (10-30vdc); 48vdc                                  |
| Voltages AC:        | 115vac; 230vac   |
| Ingress protection: | ATEX: IP66 & IP67<br>UL: Type 4, 4X & 13                 |
| Housing material:   | UL94V0 PPS & ABS   |
| ATEX cable entries: | 2 x M20 ISO cable gland entries - with 1 blanking plug.  |
| UL cable entries:   | 1 x 1/2" NPT cable gland entry - with 0.5m flying leads. |
| Terminals (ATEX):   | 0.5 to 4.0mm <sup>2</sup> - In & Out                     |
| Weight :            | DC: 2.5kg AC: 3.00kg                                     |

## Current consumption:

| Version:        | Voltage range: | Current: |
|-----------------|----------------|----------|
| 24V dc          | 10-30vdc       | 284mA    |
| 48V dc          | 38-58vdc       | 146mA    |
| 115V ac 50/60Hz | +/-10%         | 104mA    |
| 230V ac 50/60Hz | +/-10%         | 54mA     |

\* SPL data +/-3dB(A). Measured at optimum voltage.

## Part codes:

**Part Code:**      **Classification:**

### ATEX version:

E2xS112EG\*\*    II 3G EEx nA nL IIC T4 (Tamb -20°C to +55°C)

### UL version:

E2xS112UL\*\*    Class I, Div 2, Grps A,B,C,D T3C (160°C) at +55°C

Class I, Div 2, Grps A,B,C,D T4 (135°C) at +40°C

Class II, Div 2, Grps F & G T6 (85°C) at +40°C

Class II, Div 2, Grps F & G T5 (100°C) at +55°C

Class III, Div 1, T6 (85°C) at +40°C

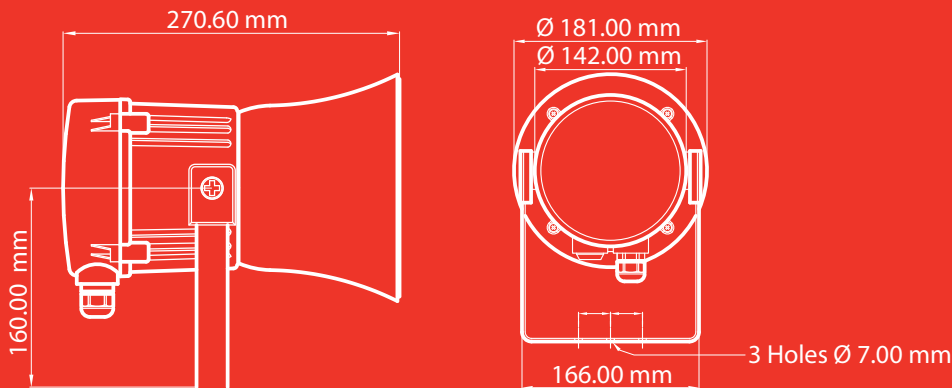
Class III, Div 1, T5 (100°C) at +55°C

\*\* = Voltage reference:

Options:            24DC, 48DC, 115AC, 230AC

e.g: E2xS112UL24DC





| Stage 1 | Frequency Description                                  | dB @ 1m*      | Stage 2 | Stage 3 |
|---------|--|---------------|---------|---------|
| Tone 1  | 340 Hz Continuous                                      | 107dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 2  | 800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone  | 113dB(A) @ 1m | Tone 17 | Tone 5  |
| Tone 3  | 500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop - NEN 2575:2000  | 113dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 4  | 800/1000Hz @ 1Hz Sweeping                              | 113dB(A) @ 1m | Tone 6  | Tone 5  |
| Tone 5  | 2400Hz Continuous                                      | 116dB(A) @ 1m | Tone 3  | Tone 20 |
| Tone 6  | 2400/2900Hz @ 7Hz Sweeping                             | 114dB(A) @ 1m | Tone 7  | Tone 5  |
| Tone 7  | 2400/2900Hz @ 1Hz Sweeping                             | 114dB(A) @ 1m | Tone 10 | Tone 5  |
| Tone 8  | 500/1200/500Hz @ 0.3Hz Sweeping                        | 113dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 9  | 1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.                | 113dB(A) @ 1m | Tone 15 | Tone 2  |
| Tone 10 | 2400/2900Hz @ 2Hz Alternating                          | 116dB(A) @ 1m | Tone 7  | Tone 5  |
| Tone 11 | 1000Hz @ 1Hz Intermittent                              | 112dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 12 | 800/1000Hz @ 0.875Hz Alternating                       | 112dB(A) @ 1m | Tone 4  | Tone 5  |
| Tone 13 | 2400Hz @ 1Hz Intermittent                              | 116dB(A) @ 1m | Tone 15 | Tone 5  |
| Tone 14 | 800Hz 0.25sec on, 1 sec off Intermittent               | 113dB(A) @ 1m | Tone 4  | Tone 5  |
| Tone 15 | 800Hz Continuous                                       | 113dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 16 | 660Hz 150mS on, 150mS off Intermittent                 | 109dB(A) @ 1m | Tone 18 | Tone 5  |
| Tone 17 | 544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001        | 109dB(A) @ 1m | Tone 2  | Tone 27 |
| Tone 18 | 660Hz 1.8sec on, 1.8sec off Intermittent               | 109dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 19 | 1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - AFNOR NFC48-265 | 114dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 20 | 660Hz Continuous                                       | 109dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 21 | 554Hz/440Hz @ 1Hz Alternating                          | 109dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 22 | 544Hz @ 0.875 sec. Intermittent                        | 109dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 23 | 800Hz @ 2Hz Intermittent                               | 113dB(A) @ 1m | Tone 6  | Tone 5  |
| Tone 24 | 800/1000Hz @ 50Hz Sweeping                             | 112dB(A) @ 1m | Tone 29 | Tone 5  |
| Tone 25 | 2400/2900Hz @ 50Hz Sweeping                            | 114dB(A) @ 1m | Tone 29 | Tone 5  |
| Tone 26 | Bell   | 108dB(A) @ 1m | Tone 2  | Tone 15 |
| Tone 27 | 554Hz Continuous                                       | 109dB(A) @ 1m | Tone 26 | Tone 5  |
| Tone 28 | 440Hz Continuous                                       | 106dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 29 | 800/1000Hz @ 7Hz Sweeping                              | 112dB(A) @ 1m | Tone 7  | Tone 5  |
| Tone 30 | 300Hz Continuous                                       | 107dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 31 | 660/1200Hz @ 1Hz Sweeping                              | 112dB(A) @ 1m | Tone 26 | Tone 5  |
| Tone 32 | Two tone chime.  | 108dB(A) @ 1m | Tone 26 | Tone 15 |
| Tone 33 | 745Hz @ 1Hz Intermittent                               | 109dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 34 | 1000 & 2000Hz @ 0.5 sec Alternating - Singapore        | 109dB(A) @ 1m | Tone 38 | Tone 45 |
| Tone 35 | 420Hz @ 0.625 sec Australian Alert - AS2220            | 114dB(A) @ 1m | Tone 36 | Tone 5  |
| Tone 36 | 500-1200Hz 3.75sec /0.25sec. Australian Evac. - AS2220 | 108dB(A) @ 1m | Tone 35 | Tone 5  |
| Tone 37 | 1000Hz Continuous - PFEER Toxic Gas                    | 113dB(A) @ 1m | Tone 9  | Tone 45 |
| Tone 38 | 2000Hz Continuous                                      | 112dB(A) @ 1m | Tone 34 | Tone 45 |
| Tone 39 | 800Hz 0.25sec on, 1 sec off Intermittent               | 114dB(A) @ 1m | Tone 23 | Tone 17 |
| Tone 40 | 544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001        | 113dB(A) @ 1m | Tone 31 | Tone 27 |
| Tone 41 | Motor Siren - slow rise to 1200 Hz                     | 112dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 42 | Motor Siren - slow rise to 800 Hz                      | 114dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 43 | 1200 Hz Continuous                                     | 113dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 44 | Motor Siren - slow rise to 2400 Hz                     | 116dB(A) @ 1m | Tone 2  | Tone 5  |
| Tone 45 | 1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm     | 112dB(A) @ 1m | Tone 38 | Tone 34 |