Product name	Part Number
Addressable Industrial open area sounder	ADD 5000-902
Addressable Industrial open area sounder beacon	ADD 5000-903
Base	ADD 45681-518SHA

FUNCTION

The Industrial Open-area Alarm Devices are loop-powered, wall mounted devices which are connected to any XP95® or Discovery® system.

The range comprises sounders, beacons and sounder beacons, all designed to fit to a common mounting base. Details are shown in Table 1 overleaf.

FEATURES

The alarm devices offer:

- 8 tones on Industrial devices; all of which comply with EN54–3:2001
- three volume settings 92dB(A), 105dB(A) and 112dB(A)
- synchronisation of tones and flashes
- individual & group addressing
- built-in isolator
- wire-to-base for simple interchange of device
- device locking facility

A nominal sound output of 100dB(A) is achieved at a current consumption of 5mA in the case of the sounder and 8mA for the sounder beacon.

Many control panels will be able to drive up to 20 sounders and up to 15 sounder beacons per loop on average. The maximum number of devices that may be connected to a particular loop should, however, be determined by a loop loading calculation using the Loop Calculator.

Table 1 Industrial Open-Area alarm devices

Device type & Part no	Colour	Tone	Flash
Industrial Sounder ADD 5000-902	red	Syncoln Slow whoop DIN	
Industrial Sounder beacon ADD 5000-903	red	Syncoln Slow whoop DIN	Syncoln

Since the alarm devices are intended for use in Industrial Open Areas, it is possible for more than one device to be audible at any given point in a building. For this reason, the operation of all may be synchronised by the control panel.

All the alarm devices can be assigned group addresses as well as individual addresses, so that the functional options of the sounder are identical with those of the Sounder Control Unit Syncoln.

ELECTRICAL CONSIDERATIONS

All devices are powered directly from the loop and need no external power supply. They operate at 17–28V DC and are polarity sensitive.

TONE FREQUENCY AND VOLUME CONTROL

The Syncoln tone version produces a pulsed alert tone of 984Hz, 1 second off and 1 second on, and a continuous evacuation tone of 644Hz for 0.5 seconds followed by 984Hz for 0.5 seconds.

SYNCHRONISATION

The sounder also offers synchronization of continuous and pulsed tones. This ensures the integrity of the alert signals – tones from different sounders do not merge into one signal that could be mistaken for an 'evacuate' tone.

ADDRESSING

The open-area alarm devices respond to their own individual address set with a DIL switch.

They can also respond to a 'Group Address' which allows multiple sounders to be controlled simultaneously. A group address may be any spare address between 112 and 126 and is selected by means of a 4 segment DIL switch. A device under group address control must have an individual address between 1 and 111 otherwise a fault value of 4 is transmitted. Devices not using the group address facility may be addressed at any address (1–126).

PROTOCOL COMPATIBILITY

equipment using the XP95 or Discovery protocol. The features of the Open-area alarm devices are available only when the device is connected to a control panel with the appropriate software.

MECHANICAL CONSTRUCTION

The alarm devices have a base which is fitted to the mounting surface and wired as a 'first fix'.

Dimensions and weight of Industrial Sounder:

All models:	104 x 97.5mm

Weight, sounder	235g
sounder beacon	270g
beacon	215g

TECHNICAL DATA

Operating voltage (polarity sensitive)	17–28V DC
Maximum Loop Current consumption at 24V	
switch-on surge,	1.2mA for <1 sec
quiescent	333µA
alarm, sounder 92/105dB(A)	5mA
alarm, sounder beacon, sounder 112dB(A)	8mA
alarm, beacon	3.1mA
Maximum sound output	112dB(A)
(See PP2203 for full details) IP	
rating (Industrial version)	66
Operating temperature	−30ºC to +85ºC

For sound pressure levels measured to EN54-3 see document PP2203 and for isolator operation information see document PP2090, both available upon request.