

SENTRY MK2 SOUND LEVEL CONTROL

Sound level monitoring Complete control

The Sentry MK2 is widely recognised as one of the most effective and versatile sound level control units of its type on the market and a market leader.

The trigger level can be set between 85-125dB, when triggered there is both a low voltage and mains output which is usually used to drive a contactor.

Two separate levels can be set so if different limits are required for example weekdays and weekends or daytime and night then this can be done with a switch, a timer version is available which will automatically switch at programmed times.

The level is set by a single adjustment under the panel. The display indicates how close or far the sound level is from the set threshold, the factory setting allows about 20 seconds over limit before tripping which is generally enough for the performer to adjust their level down. The time delay can be adjusted

074K



Remote
Keyswitch

Remote reset options

074P



Remote
push button



Contactor

The display/control box is available separately and can be used as a warning display or with a mains contactor.

Our contactor is 32A and in a box with a low voltage interface and fixing points to make installation easier with only a low voltage (<18V) and low current (<100mA) connection required between display and contactor box.

A double contactor version is also available if control of more than one ring is needed.

Display/Control unit



Sentry MK2

The second level is also useful if a lower level is needed if doors/windows are open when magnetic relays can switch levels.

A connection for an external microphone and phantom power is included, plus a connection for a remote reset box option (see left).

Below is the AT1 option that provides extra control (See separate AT1 leaflet).

There is also a security loop facility and alarm connection for emergency cut off such as fire alarm. Also provided is a set of isolated contacts that switch when the unit trips for any other requirement.

A choice of linear, "A", "C" and bass weighting is fitted, the weighting is selected by moving jumpers under the panel below the display.



AT1 option



SENTRY MK2

SOUND LEVEL CONTROL

The Sentry MK2 display/control unit has an internal microphone and facility for an external mic, the display indicates how close the sound level is to a set threshold.

Sentry MK2

Threshold levels

Microphone

Display

Trip delay

Reset

Security Loop

Trip outputs

Warning output

Fire alarm interface

Weighting

Connections and adjustments

Case

Power

Dimensions

The threshold is set by an adjustable pot beneath the front panel, when the set level is exceeded a number of trigger outputs are presented.

The trigger outputs include a low voltage, a mains voltage and a set of isolated contacts.

Normally a contactor is connected to one of these outputs to control a mains ring, but equally the outputs can be used to drive a display or other device.

Our contactor uses the low voltage output and is rated at 32 Amps so is perfectly suited to controlling a 32A ring main. Using a low voltage connection also avoids unnecessary routing of mains cable.

When the display reaches warning level a warning output is enabled providing 60VA of mains power to drive a warning light if required.

For full details of the features download the product manual from our website.

A remote display option is available should a second display be required.

TECHNICAL SPECIFICATION

2 levels may be set between 85dB and 125dB, switching is by shorting two terminals

Internal electret microphone is fitted and a connection for an external microphone and 18V phantom power if required.

10 segments indicating -20dB, -10dB, -7dB, -5dB, -3dB, 0dB, -1dB, +1dB, WARNING (+2dB) and OVERLIMIT (+3dB).

Adjustable between 5 and 45 seconds.

Front panel push button or optional remote panel.

A shorting link which when broken trips the unit after a short delay.

Low voltage (12 -18V at <100mA), 60VA mains and isolated contacts.

60VA mains

Can be set for volts applied, volts removed, contacts closing or contacts opening.

A choice of linear, "C", "A" or Bass selectable on jumpers.

Located beneath the display under a removable front cover.

High impact polycarbonate, flame resistance UL 94-V2, grey with clear cover.

240V or 110V internally selectable.

320mm wide x 261mm high x 120mm deep

Formula Sound reserve the right to alter the specification without notice

Sound Level Control

Formula Sound offer what is probably the most comprehensive range of sound level control equipment available.

The Sentry Lite is a slimmer and lower cost version "cut off" control unit offering 1 level setting, 2 weighting choices, security loop, remote reset options and remote microphone option.

For fixed installations the AVC range of 1RU units provides complete control of levels, the AVC2 and AVC2D will each control 1 stereo channel (the AVC2D can be microphone driven). The AVC4 will control 2 stereo levels.

The CX4 is a 1RU unit that will control 2 stereo levels and provide a comprehensive fire alarm interface. The CX10 is a 1RU 10 line fire alarm interface.

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