

SENTRY LITE SOUND LEVEL CONTROL

Sound level monitoring Complete control

The Sentry Lite is as the name suggests a smaller version of the Formula Sound Sentry MK 2, which is widely recognised as one of the most effective and versatile sound level control equipments of its type on the market and a market leader.

The Sentry Lite includes both the display and the contactor box as shown.

A single level that can be set between 70 - 120dB plus a choice of linear or bass weighting and built in microphone will suit most installations.

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 between 5 - 45 Seconds.



Sentry Lite



Contactor

Display/control unit

For a standard install the Sentry Lite is one of the most cost effective solutions to the problem of control of sound levels in venues where the performers bring in their own sound systems.

A connection for a external microphone and phantom power is included, plus a connection for a remote reset box.

There is also a security loop facility which may be used for emergency cut off such as fire alarm.

Controlling the mains power is the only effective option and with a 32Amp contactor the Sentry Lite is perfect for the standard 32A mains ring.

The display unit is mounted opposite the performing area and a 2 core wire connects to the contactor which is installed in the mains ring. The connection is low voltage (<18V) and low current (<100mA).

A microphone tamper circuit is included and will trip if the microphone is tampered with.

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

A single adjustment behind the panel below the display sets the desired level.

Bass weighting is selected by moving a jumper under panel below the display.

Remote push button or keyswitch boxes are available from Formula Sound (074K and 074P shown left).

074K



Remote
Keyswitch

074P



Remote
push button



SENTRY LITE SOUND LEVEL CONTROL

The Sentry Lite comes in two parts, the display unit and the contactor, a low voltage wire connecting them.

This means the contactor can be installed by the fuse box and the display can be placed in the best position for the performer to see.

This simplifies the installation into the mains ring and therefore lowers the cost.

Sentry Lite

Threshold levels

Microphone

Display

Trip delay

Reset

Security Loop

Weighting

Connections and adjustments

Case

Power

Dimensions

The internal microphone is suitable for many applications, however there is provision to connect an external microphone and phantom power.

Setting of threshold is by a multi turn potentiometer allowing a setting in the range 70dB - 120dB.

Setting of the delay before tripping is by a potentiometer with a range of 5 - 45 seconds.

A choice of linear or bass weighting is selected on jumpers.

The display indicates the sound level relative to the set threshold in 8 steps covering 23dB to give a clear picture of the sound level.

The security loop allows interface to a fire alarm, emergency cut off switch or magnetic relays on fire doors among possible applications. The security loop status is indicated by an LED on the display.

The microphone has tamper detection circuitry, an LED on the display shows the status.

When the Sentry Lite trips there is a delay of about 3 seconds before it can be reset. A LED on the display shows if the unit has tripped.

The front panel reset button can be supplemented or replaced by a remote reset panel (optional extra) that can be either push button or key switch.

The Sentry Lite is a simple and reliable choice for controlling sound levels.

TECHNICAL SPECIFICATION

1 level may be set between 70dB and 120dB

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

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

Adjustable between 5 and 45 seconds.

Front panel push button and/or optional remote panel.

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

A choice of linear or bass

Located beneath the display under a removable front cover.

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

240V (110V available on request from factory).

166mm wide x 160mm high x 134mm 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 MK2 is a more comprehensive "cut off" control unit offering 2 level settings, 4 weighting choices, fire alarm interface and remote display options. The ability to also connect the AT1 option allows it to control sound levels before reaching cut off.

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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