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CX4 - Fire Alarm Priority & Sound Level Limiter

Features

- Interfaces audio system and fire alarm
- Cuts music level in case of fire alarm
- Priority override channel for safety announcements
- Control maximum music sound level

Applications

- Fire Safety
- Noise Control
- Entertainment Venues
- Sports Venues

Overview

The CX4 interfaces with your fire alarm system. It cuts the music sound level and provides a priority override.

Cut the Music Level

The CX4 connects between the mixer (or preamp) and the amplifiers of the audio system. It is a four channel device, usually connected as two stereo pairs.

In normal mode (not triggered by the fire alarm) the signals pass through the four channels without attenuation. When the unit is triggered - usually by a fire alarm - the music level is attenuated. In order to avoid panic, it has been found that the music should be attenuated rather than cut altogether, so this is exactly what the CX4 does. The level of attenuation can be adjusted using the controls hidden under the front panel.

When the unit is reset, the program will fade back to the original volume. Reset can be either manual or automatic.

Priority Override

The priority input may be a microphone or a line level source. In normal operation, the priority input signal is available at the priority output socket for normal use.

When the CX4 is triggered, the priority signal is mixed into the four channels of attenuated music.

Noise Limiter

This is a secondary function that is included with the CX4. It allows you to set a maximum permitted sound level in an entertainment venue. The unit monitors the level in channels 1 and 2 (the main program channels) and if it goes above the threshold then the LIMIT indicator lights up and the level is attenuated back to the threshold.

Two limiters are fitted, one acting on the average level and one based on the peak level. This allows the average and peak limits to be set without undue music compression.

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Specifications

Technical Specifications

Detailed specifications for the Fire Alarm Priority and Sound Level Limited, which cuts the music volume in the even of an alarm activation.

Gain	Normal operation, unity gain 0dB -1dB
Frequency Response	20Hz - 30KHz 0.5dB -1dB
Distortion THD @ 1KHz	O/P 20dBU <.015% (Typically .007%)
Noise	< -90dBU EIN
Inputs	Balanced
Connector type	XLR
Input impedance	> 30k Ohms
Max input level	22dBU
Outputs	Electronically balanced
Connector type	XLR
Max O/P level	22dBU into 600R load
Auxiliary connections	6 Way screw terminal connector
Control input	Pins 1 & 2 18V - 24V DC (Voltage mode) Isolated switch contacts (Switch mode)
Remote indicator outputs	Pin 3 - Limit Pin 4 - Peak Pin 5 - Priority Pin 6 - OVE common Outputs will drive L.E.D.s. directly without series resistors. They will also drive suitable solid state relays to drive mains voltage indicators.
Controls	Situated behind removable security panel 1 - Priority input level all channels 2 - Priority input level channels 3&4 (allows chans 3&4 to be lower than chans1&2) 3 - Limit threshold.(average) adjustable range -20dBU to 22dBU 4 - Peak threshold allows the peak limiter to be set above the average limit threshold 5 - Attenuation channels 1&2. Range 0dB to -60dB (factory setting -20dB) 6 - Attenuation channels 3&4. Range 0dB to -60dB (factory setting -20dB) 7 - Reset momentary action push button(can be set to automatic) 8 - Test momentary action push button. (For set-up and testing)
Priority input	Internally selectable Mic - Line
Connector type	XLR in and out
Set to Mic	Low impedance. Balanced. Max gain 70dB
Set to Line	10K Balanced. Max I/P level 30dBU
Visual indicators	Power - 2 x Green L.E.D.s. Limit - Red L.E.D. Peak - Amber L.E.D. Priority override - Red L.E.D.
Dimensions	19" rack mounting - 1RU - Width 482 mm (19") Depth 206 mm (8.1") Height 44 mm (1.75")
Finish	Front - and Rear panels- Black anodized aluminum with silver notation which will not rub off in use. Case - black plastic coated steel.
Power	IEC Connector 200 - 240V AC. Mains Fuse 250mA Anti Surge (slow blow) 110 - 115V AC. Mains Fuse 500mA Anti Surge (slow blow)

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Web Sites

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Product shortcut:
https://www.noisemeters.com/p/g-cx4/

Tech Support:
https://support.noisemeters.com