NoiseMeters

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 programme 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 programme 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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Situated behind removable security

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Specifications

Controls

Detailed specifications for the Fire Alarm Priority and			panel 1 - Priority input level all channels
Sound Level Limited, which cuts the music volume in the even of an alarm activation.			2 - Priority input level channels 3&4 (allows chans 3&4 to be lower than chans1&2)
Gain	Normal operation, unity gain 0dB -1dB		3 - Limit threshold.(average) adjustable range -20dBU to 22dBU
Frequency Response	20Hz - 30KHz 0.5dB -1dB		4 - Peak threshold allows the peak limiter to be set above the average
Distortion THD @	O/P 20dBU <.015%		limit threshold
1KHz	(Typically .007%)		5 - Attenuation channels 1&2.
Noise	< -90dBU EIN		Range 0dB to -60dB (factory setting -20dB)
Inputs	Balanced		6 - Attenuation channels 3&4.
Connector type Input impedance	XLR > 30k Ohms		Range 0dB to -60dB (factory setting -20dB)
Max input level	22dBU		7 - Reset momentary action push button(can be set to automatic)
Outputs Connector type	Electronically balanced XLR		8 - Test momentary action push button. (For set-up and testing)
Max O/P level	22dBU into 600R load	Priority input	Internally selectable Mic - Line
IVIAX O/P level	220BU INIO 600R 10a0	Connector type	XLR in and out
Auxilian	6 Mov corow terminal connector	Set to Mic	Low impedance. Balanced. Max gain
Auxiliary connections	6 Way screw terminal connector		70dB
Control input	Pins 1 & 2 18V - 24V DC (Voltage mode) Isolated switch contacts	Set to Line	10K Balanced. Max I/P level 30dBU
	(Switch mode)	Visual indicators	Power - 2 x Green L.E.D.s.
Remote indicator	Pin 3 - Limit		Limit - Red L.E.D.
outputs			Peak - Amber L.E.D.
	Pin 4 - Peak Pin 5 - Priority		Priority override - Red L.E.D.
	Pin 6 - OVE common Outputs will drive L.E.D.s. directly without series resistors. They will	Dimensions	19" rack mounting - 1RU - Width 482 mm (19") Depth 206 mm (8.1") Height 44 mm (1.75")
	also drive suitable solid state relays to drive mains voltage indicators.	Finish	Front - and Rear panels- Black anodised aluminium with silver notation which will not rub off in use.
		Power	Case - black plastic coated steel. IEC Connector 200 - 240V AC. Mains Fuse 250mA

Head Office

NoiseMeters Ltd 7 Jayes Park Ockley Surrey RH5 5RR

Telephone **0845 680 0312** Fax **0845 680 0316**

Email: info@noisemeters.co.uk Support: support@noisemeters.co.uk

Web Sites

Main site: https://www.noisemeters.co.uk

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

Anti Surge (slow blow)

Anti Surge (slow blow)

110 - 115V AC. Mains Fuse 500mA

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