

GUARDIAN CX10 and CX10-T



Formula Sound CX10 and CX10-T

The CX-10 is an audio control unit that allows a single channel priority signal to be routed into all channels of a multi - channel audio system, simultaneously attenuating any existing signals, either by a preset amount or completely.

The CX10-T is an identical unit with the addition of preset controls allowing the level of the priority signal to each output to be adjusted individually.





Formula Sound CX10 and CX10-T Specifications

Gain	Normal operation, unit gain +0dB -1dB
Frequency Response	20Hz - 20kHz +/- 1dB
Distortion	THD @1kHz, output level +20dBu, < 0.015%
Noise	< -90dBu EIN din audio band
Inputs	Input impedance >30K. Balanced Unbalanced >15K Maximum input level +22dBu.
Outputs	Electronically balanced. Source impedance <100R. Maximum output level before clipping, into 600R load +22dBu. Unbalanced operation is possible with no performance loss
Controls	1 - Priority input level into all channels. 2 - Attenuation of channel "through" signals in priority mode 3 - (CX 10-T only) Attenuation of priority signal individually to output channels 4 - Manual test button. All controls are operated through holes in the front or rear panels. These holes may be blanked by plastic snap rivets if required to prevent tampering.
Priority Input	Input impedance >20K. Unbalanced < 10K Maximum input level +22dBu.
Control Input	Switch contacts. Close to operate. Must be isolated.
Monitoring	Power supply monitoring via opening/closing contacts Local test button status via opening/closing contacts
Attenuation	Attenuation of main signals is adjustable, from 0 to -90dB.
Visual Indicators	Power - 2 Green l.e.d.'s Priority 1 Red l.e.d
Connectors	3.5mm pitch pin connector throughout (mating half provides screw terminals) Audio connections 3pin. Control connections 2 pin. Monitoring connections 6 pin
Power	200-240V AC (110V to order) Mains fuse 250mA slow-blow. IEC mains connector.
Enclosure	Front / Rear panels Black anodised aluminium. Case - Black plastic-coated steel.
Dimensions	19" 1RU Width 482mm (19") Depth 200mm (7.9") Height 44mm (1.75")
Operation	The CX10 has been designed to be connected between the mixer (or pre-amp) of an audio system and the power amplifiers. The unit may be connected to 10 channels of audio. The priority signal (e.g. emergency microphone etc) is connected to the priority input socket. This is at line level. The control input is connected to the fire alarm or whatever triggering method has been decided. When the unit is triggered, the programme level in all ten channels will be attenuated and the priority input automatically mixed into all ten outputs. When the trigger is switched off the programme will fade back to its original level.