



The LM 08 Line Supervisory Unit provides constant monitoring of the public address system's loudspeaker lines.

The unit provides constant surveillance for up to 8 loudspeaker lines, monitoring for short circuits, open circuits and ground leaks. Utilising high precision line driver impedance checking methodology, normally found only in precision measurement instrumentation, the LM 08 provides constant monitoring of branched loudspeaker network and audio attenuator insertion with minimal setup requirements.

An LCD display provides a simple user friendly interface for setup & monitoring, together with a set of buttons for control.

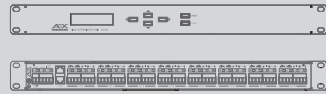
With user friendly visual indicators on the facial and built-in aural indicator for fault, the LM 08 is truly a complete multi-function package for monitoring one of the critical paths of any public address system.

The unit is capable of interfacing with the eX 800 Series Digital Matrix System for remote monitoring, fault event logging and notification.

- Built-in pilot tone signal generator
- High precision line drivers enable accurate measurement of the loudspeaker line impedance up to a maximum distance of 1 km.
- Impedance checking method allows for branching of loudspeaker lines without the need for end-line resistors and DC-blocking capacitors.
- Allows for monitoring of loudspeaker line beyond the audio attenuator.
- Automatically isolates shorted loudspeaker line from the power amplifier to prevent damage.
- Visual and aural indicators for line faults (Short, Open, Ground Leak).
- Multiple units can be cascaded, allowing for backup ratio of 16:1, 24:1 or more, up to 64:1.
- Maximum power handling of 500 W (rated at 100 V) per channel.



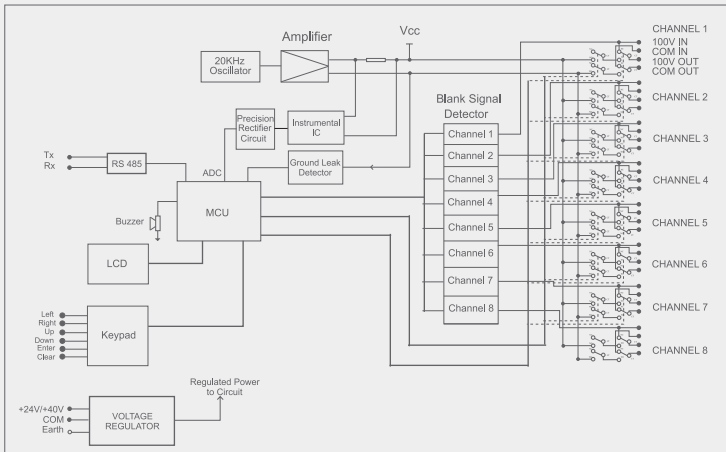
LM 08
Line Supervisory Unit



Technical Specifications

LM 08	
Connected Power Handling Per Zone	Up to 500 W rms max
nos. Of Channels per Unit	8 channels
Connectors	Power : 1 no. 2-Way Panel Feed Through Connector Control & Overriding Power : 1 no. 4-Way Panel Feed Through Connector Communication : 1 no. Double Deck RJ 45 Socket I/O (100 V Line) : 8 no. 4-Way Panel Feed Through Connector Priority & Volume Overriding : 8 no. 4-Way Panel Feed Through Connector
Control	Selection Button (Enter, Clear, Up, Down, Left, Right)
Control Output	Withstand Voltage 24 Vdc 40 mA (Fault Trigger) Withstand Voltage 24 Vdc 1 A (Attenuator Override Output)
Interval Timer Duration	0 min, 5 min, 1 hour, and 24 hours
Measurement Sensitivity	+/- 10 % of Line Impedance
Indicators	2 x 16 Characters LCD Display
Power Requirements	24 Vdc (Regulated), 500 mA
Material & Finish	Mild Steel Casing, Epoxy Coated Textured Black
Dimensions (W x H x D)	483 x 44 x 200 mm
Weight	3 kg

Block Diagram



Engineers' Specifications

The Line Supervisory Unit shall be able to monitor up to 8 loudspeaker lines for short, open and ground leak. When a short is detected, the loudspeaker lines shall be automatically isolated from the power amplifier. The unit shall employ impedance measurement technique to compare the reference impedance with the measured impedance. The Line Supervisory Unit shall also be able to monitor branched network and loudspeaker lines beyond the audio attenuator. The unit shall be able to activate the overriding control relay at the audio

attenuator during override mode. The unit shall be 1U in height, 19" rack mountable and weight not more than 3 kg.

