

# XL-150M Induction Loop Amplifier

Loop amplifier with many features for loop areas up to 150 m<sup>2</sup>



- 3 balanced microphone inputs
- 3-band equalizer (low, mid, and high)
- 3 LED's for careful control of loop current
- AGC (Automatic Gain Control) indicated by a LED
- Override function
- PLUG-IN type connector
- Modern design



XL-150M is a loop amplifier constructed for loop areas up to 150m<sup>2</sup>. It is equipped with 3 microphone inputs designed for dynamic and electret/condenser microphones. One of the MIC inputs can easily be modified for a wireless microphone receiver. This input is also fitted out with an OVERRIDE function with adjustable sensitivity and decay. XL-150M can also be connected to TV, radio and tape recorder, which means that it is very suitable

for education purposes in schools, assembly halls, theatres, churches etc. The amplifier is also supplied with voltage output for external signal systems. There is also a trig input and a tone indication via the loop. All this together makes the XL-150M very useful in many different applications both in private and public areas.

## TECHNICAL SPECIFICATIONS

**Power supply** 230V / 50 Hz

**Coverage area** approx. 150 m<sup>2</sup>

### Audio inputs

MIC 1: 0.5 mV-40 mV / 600 Ω  
Tuner: 15 mV-10 V / 600 Ω  
MIC 2: 0.5 mV-40 mV / 600 Ω  
MIC 3: 0.5 mV-40 mV / 600 Ω  
(Line): 35 mV-3.5 V / 600 Ω  
IN 1-2: 35mV-10V / 430 Ω / 200 kΩ

### Override function MIC 1:

Sensitivity\*: 0.4 mV\*  
Attack time: 45mS  
Decay time: 0.2 - 6 sec

\* Input on MIC1, maximum sensitivity

- All MIC inputs are electronically balanced.
- 12V DC phantomvoltage, switchable via internal switch.

### Audio outputs

Loop out, current: 8.3 A RMS / 1 Ω (125ms)\*\*  
Loop out, voltage: 14.6 V RMS / 18 Ω (125ms)\*\*  
Line out: 0.775 V (0 dB) 600 Ω

**Frequency response:** 100Hz - 5kHz (± 3dB)

**S/N Ratio:** >60dB

### Equalizer

LOW: ± 9 dB 50 Hz  
MID: ± 9 dB 800 Hz  
HIGH: ± 9 dB 12 kHz

### AGC:

Range: > 70 dB  
Attack time: 5ms  
Decay time: 6dB/s

### In- Outputs for doorbell and telephone

Voltage: 13 V / max 1.6 A  
Trig input: 4 - 24 V AC / DC  
Tone indication: 1100 Hz.

\*\* Measurements carried out in accordance with Nordic Test Method. Due to active time dependent signal processing, the loop amplifier cannot be measured during continuous operation.

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