

# ET120 & ET60

## Wall Mount AFILS Amplifiers



The ET120 and ET60 Audio Frequency Induction Loop amplifiers have been designed to meet the requirements of buildings to comply with the DDA and building regulations document M, or anywhere where provision is allowed for hard of hearing clients.

The ET120 covers a square area of 120m<sup>2</sup>, (11m a side) and rectangular areas up to 70m by 5m (350m<sup>2</sup>) such as corridors (see chart later), whilst the ET60 Covers a square room of 64m<sup>2</sup>, (8m a side) and rectangular areas up to 55m by 3m (165m<sup>2</sup>)

The unit is self-contained in a wall mount enclosure with an attractive ABS lid and metal back box, which has 20mm gland knockouts on the top for signal cables and the bottom for mains connection allowing simple cable management & installation.

The ET120 features metal loss correction, which restores the high frequencies removed by metal in buildings such as ceiling grids and floor reinforcing.

Front panel indication is given for input signal limit and peak loop drive current.

### Features:

- Balanced or Unbalanced Microphone input
- Line or 100v Line input
- 120m<sup>2</sup> square area coverage (64m<sup>2</sup> for the ET60)
- Covers areas up to 70m x 5m (350m<sup>2</sup>)
- Studio Quality Compressor Limiter
- Wall Mounted for permanent fixture
- Metal Loss Correction
- Secure mix controls on front
- 4A Peak Current (3A ET60)
- >8A short Term Peak Current
- Phantom Power on the microphone input
- Two part Screw terminals for ease of installation.
- 0.1Ω to 2Ω Loop drive
- Instructions and Loop Present Sticker provided

### Connections

For most applications the ET120 and ET60 can be considered as a speaker, and can be connected in parallel with other speakers in a 100V distribution system.

The wall mount enclosure can then be discreetly placed near the ceiling, or within a cupboard.

The unit is designed to be fed from a fused spur (3A max fuse rating) and to be permanently powered.

All adjustments can be made without exposing live terminals, through the secure screwdriver adjust ports on the front panel.

The microphone input can be used for ambient feedback, or as the main feed if the unit is used in a conference or boardroom environment.

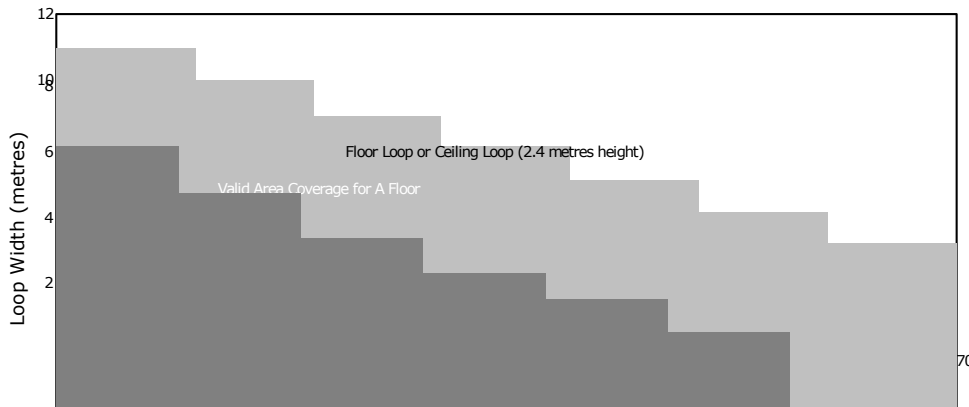
If the 100V line socket is not used, the balanced line input can be used with balanced or unbalanced audio signals from 200mV to 1V RMS in level, such as televisions or video conferencing systems.



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### Coverage



The above graph shows the areas covered by the ET120, the lower line shows the ET60, this is based on normal building construction, lost sheet screed or large areas of metal will reduce the coverage and require use of the metal correction. If the loop is placed higher than 2.4 metres, the coverage will reduce by approximately 20% per metre above this height.

If the loop is ceiling mounted, avoid aluminium or sheet metal ceiling tiles, these will reduce the effective coverage.

Always run the microphone and loop cables separately, only crossing at 90° to avoid magnetic feedback.

### Technical Specification (values for ET60 in brackets)

#### Inputs

Audio inputs	1 off balanced mic or unbalanced mic, 1 off 100V line or balanced line selectable.
Type	2-part 5mm Screw terminals
Line Power	Aux 12V 100mA for loop OK signs and input pre amplifiers
Phantom	12V 2mA
Sensitivity	-50dBV Microphone, +40dBV 100V line, -10dBV balanced line.

#### Mains Input

Voltage	230V ~ 50/60 Hz
Current	250mA Nominal (180mA)
Power	90VA Max (60VA Max)
Internal fuses	Mains 1A (F) HBC
Fuse for Spur	3A

#### Indication & Controls

LED indicators	1 off input signal limit, 1 off AC present, 4 off loop current 1A, 2A, 3A, 4A (0.8A, 1.5A, 2.2A, 3A)
User Controls	2x input mixer, Metal loss adjust and current Drive.
Protection	Recessed screwdriver adjust only.

#### Audio Processing

Metal Loss	0 to 3dB per Octave
Compressor	Variable ratio 1:1 to limit 20:1.
Attack	10mS
Release	Automatic from 500mS to 1500mS
Dynamic Range	>60dB
THD	<0.25%

#### Output Stage

Type	Current Mode
Loop impedance	0.1Ω to 2Ω max 3Ω @1.6KHz
Loop Type	Single turn 1mm to 1.5mm CSA (0.75mm to 1mm CSA)
Peak Current	>8A peak (>6A peak)
125mS burst	>4A peak (>3A peak)
RMS Current	2A @1KHz (1.8A @1KHz)
Protection	DC, Thermal, Short circuit, soft start.

#### Dimensions

Extents	Height	225mm
	Width	160mm
	Depth	80mm
	Weight	1.2Kgs (1Kgs)

#### Options

Mains Supply	110V operation
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