

ET20EC

Economy Counter Loop Kit

The ET20 is designed to provide a low cost solution for AFILS at counter locations, where fixed loops are preferable to portable solutions, and can be discreetly placed.



Features:

- **Supplied as a complete kit**
- **2 Inputs**
- **Phantom Power**
- **Current Mode Output**
- **Plug top PSU Supplied**
- **Compressor & Noise Limiter**
- **True Operation Indicator**
- **Protected Output Drive Control**
- **Small size (80mm by 80mm by 33mm)**
- **>2A Peak Current Capability**

The ET20EC is a complete loop kit for use on counters to simplify compliance with the DDA and building regulations.

The unit is designed for installation to walls, vanity panels, desks and counters. The unit features recessed controls to reduce unauthorised adjustment. LED indication is provided for the presence of power and loop current.

The supplied kit comprises the loop amplifier, telecoil, microphone, power supply unit and loop present sticker

The amplifier has two microphone inputs; other signal Levels can be accommodated using the relevant Current Thinking adaptor.

The unit incorporates the latest design in audio processing allowing varying microphone levels to be compensated for automatically while preventing sudden loud noises from reaching the output stage.

Product Overview



**Current
Thinking**

ET20EC

Economy Counter Loop Kit

Installation

The ET20 is designed to provide loop coverage for counters, desks and interview rooms, as well as larger areas up to 32m² *(see note 1 below).

The supplied kit is designed for counters, however the telecoil can be substituted for a wire loop.

To aid installation, a range of accessories is available including pre-made telecoils, loop cable; desk microphones, discrete clip microphones, scart adapters and 100V line adaptors.

Installation is simplicity itself, the unit should be sited in a convenient place (ideally as close to the area to be covered as possible) the loop cable (a single turn loop of between 0.5mm and 1.0mm CSA cable) or telecoil is installed securely ² and the microphone(s) are located as close to the area(s) where the sound is to be picked up from ³. Mains power can now be applied using the Plug top adaptor supplied, the output drive control can now be adjusted to achieve the correct field strength. This is best done with a loop field strength meter during installation (ETFSM), or a loop listening device (ETRX). It is good practice is to supply a loop listening device to all installations to allow the responsible person to test the loop periodically.

Notes:

1. Loop coverage: the unit is rated at 20m² coverage for a square room (4.2m a side) where the loop cable is fitted at ceiling (2.4m) or skirting board level. If the room is rectangular the unit will cover 32m² (8m by 4m) with the cable at ceiling or floor level. If the floor contains a lot of steel (computer decking) or aluminium or the cable is placed at a higher level than 2.4m then the coverage will be reduced (approximately 20% per additional metre in height).

2. If there is any doubt as to the construction of the building, it is always best to lay a temporary loop in the approximate position the final loop will occupy, this will determine the operation of the loop. Many new buildings contain aluminium in lost screed flooring, loops placed on the floor near this aluminium will fail to operate satisfactorily.

3. Microphone cables must be run separately from the loop cable, under no circumstances should the cables be tied together for any distance, this will cause magnetic feedback and the unit will not perform correctly. Good practice is to twist the loop feeder cable together between the start and end of the loop and the amplifier. Current Thinking provide the telecoils with twisted feeder cables, and feeder cable is available in 5m and 10m lengths.

Technical Specification

Inputs

Audio inputs	2 off
Type	Microphone 3.5mm mono jack
Phantom	Yes, 4.5V 1mA
Sensitivity	
Input 1	-50dB (priority)
Input 2	-46dB
Power	12V AC or DC 500mA
Internal Fuse	500mA(T)

Mains PSU

Type	Plug-top (UK or Euro Type)
Voltage	230V ~ 50/60 Hz
Power	20W Max
Fuse	Thermal

Indication & Controls

LED indicators	2 off, power and loop current
User Controls	Current Drive.
Protection	Recessed screwdriver adjust only.

Audio Processing

Compressor	Variable ratio 1:1 to limit 20:1.
Attack	10mS
Release	Automatic from 500mS to 1500mS
Noise Reduction	Yes, limits bandwidth to 8KHz at full gain, 16KHz at -6dB
Dynamic Range	>60dB
THD	<0.5%

Output Stage

Type	Current Mode
Loop impedance	0.1W to 1W
Peak Current	3.5A Peak
125mS burst	3A Peak
RMS Current	1.5A (@1KHz)
Protection	DC, Thermal, Short circuit, soft start.

Dimensions

Extents	Height	170mm
	Width	91mm
	Depth	33mm
Weight	Unit	860g
	Packed	1Kg including Supply, Telecoil, mic, Sticker & packaging

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