

# MAT60

## Microphone Adapter

The MAT60 is designed to interface a balanced microphone to an unbalanced electret microphone input such as those found on the Ampetronic ILD60 and ILD20 induction loop amplifiers. The unit has unity gain and can provide phantom power to the balanced microphone if required.

Installation should be in a location away from extremes of temperature and humidity.

The use of the MAT60 for purposes or modes different from these indicated will nullify any warranty and performance specification.

### 1. Input connection.

The input should be connected to a balanced microphone using good quality screened balanced cable, terminated in a male XLR plug. If the microphone requires phantom power, then a DC power source must be connected to the DC input as detailed below.

The MAT60 can be used to phantom power most microphones. The internal voltage drop from external supply to microphone line is 2.1V when drawing 1 mA. this increases to 3.5V 2 mA. This should normally be the maximum load current. The input voltage (from the external supply) should be between 12V and 24V The supply will also power the internal "Power LED", which consumes 5 mA at 24 V supply.

### 2. Output connection.

The MAT60 output should be connected to the input of a CLD1 or ILD100, using a single core screened cable terminated in 3.5mm mono jack plug at each end. This cable *must not* exceed 3m otherwise interference may be introduced into the system.

### 3. DC Power In.

To provide phantom power, the MAT60 requires an external DC power supply with the following characteristics:

Output voltage 12-24V DC, fully regulated.

Power rating 8mA (100mW @ 12V) minimum.

Output connector DC power jack, 2.1mm pin, centre (pin) +ve.

**AMPETRONIC**

Listen to the difference

This *must* be a fully regulated supply otherwise hum and/or noise may be introduced into the signal.

### 4. Power LED.

This indicator, located adjacent to the DC power input, lights to show that a DC power supply has been correctly connected.

### Warranty Information

This product carries a five year parts and labour warranty from date of shipment from Ampetronic. To qualify for the five year warranty, the product must be registered at [www.ampetronic.co](http://www.ampetronic.co) (products/warranty), without which the warranty will be valid for two years only.

The warranty could be invalidated if the instructions in this handbook are not followed correctly, or if the unit is misused in any way.

The MAT60 is designed and manufactured in England by Ampetronic Ltd.

### DECLARATION OF CONFORMITY

Manufacturer: Ampetronic Ltd.  
Address: Unit 2, Trentside Business Village  
Fardon Road, Newark, NG24 4XB

Declares that the product:

Description: Microphone Adapter  
Type Name: MAT60

Conforms to the following Directive(s) and Norm(s):

Directive 2004/108/EC  
EMC: EN55103-1 : 2009 Emission  
EN55103-2 : 2009 Immunity

Directive 2006/95/EC  
Safety: EN60065 : 2002+A12:2011

Directive 2011/65/EU RoHS

Date: February 2014

J.R. Pieters, Managing Director, Ampetronic Ltd.

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