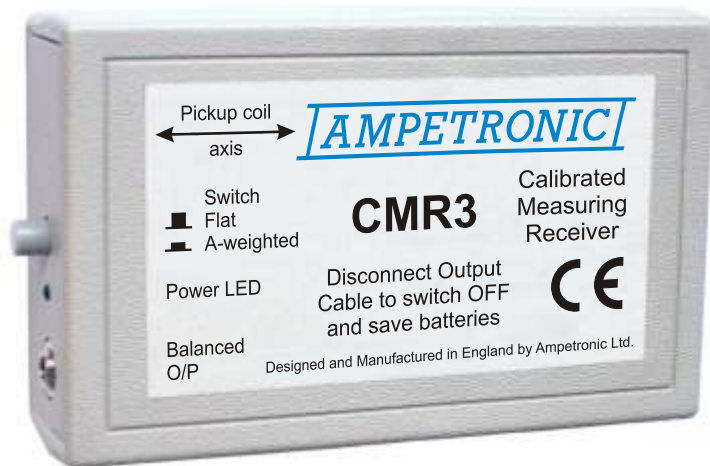


CMR3



CALIBRATED MEASURING RECEIVER

The CMR3 Calibrated Measuring Receiver is designed for measuring the performance of audio frequency induction loop systems in accordance with the requirements of the international defining standard EN 60118-4.

This standard establishes the target field strength and frequency response of the induction loop system within the usable area. Tolerances are established for the various parameters. The standard also defines an acceptable level for the interfering background noise, which must be measured.

This receiver is intended to be used as a calibrated probe with audio analysers and measuring equipment, including software based audio analysers running on portable or fixed computers.

When used with a suitable signal source and analyser the magnetic field strength, background noise, frequency response and field distribution can be measured accurately. Loop system performance and losses due to the presence of metal in building construction can therefore be assessed, and the equipment can be set up to satisfy the requirements.

TECHNICAL SPECIFICATION

The new Calibrated Measuring Receiver is designed as a very high quality Induction Loop Receiver, to give a calibrated output level for the reference magnetic field of 0.4A/m as per EN 60118-4.

The unit is battery powered, and offers a balanced line-level output which can be used with any suitable audio analyser / signal measuring system.

Sensitivity:

Calibrated to 0dBu output for 400mA/m RMS magnetic field. Headroom >6dB before clipping.

Frequency response:

±0.25dB, 50Hz to 8kHz.
-3dB at 30Hz and 14kHz.
A-weighting filter according to EN61672-1:2003 sound level meters

Gain stability:

Change due to battery voltage < 0.1dB
Change due to output loading < 0.1dB
Change due to temperature < 0.25dB
Overall gain change < 0.5dB

Output connector:

3.5mm 3-pole (stereo) jack socket.
Active balanced output. Do not use 2-pole (mono) connector.
Load impedance: > 600Ω.

Power:

2 x AA cells, preferably alkaline (1.8V to 3.2V internal supply voltage)
Battery life is about 200 hours with good quality alkaline cells.
Integral LED acts as battery condition monitor.
Batteries are not supplied.

Operating Temperature:

-20°C to +40°C

Dimensions:

Width: 62mm
Depth: 26mm
Height: 112mm
Weight: 84g

Accessories:

Output cable, 3.5mm plug to XLR plug
Balanced signal transmission.
Cable length 1.5m.

Construction:

Moulded case - grey.

AMPETRONIC

The Complete System Capability

Ampetronic Ltd. Northern Road, Newark, Nottinghamshire. NG24 2ET United Kingdom

Tel: +44 (0) 1636 610062 Fax: +44 (0) 1636 610063

Email: sales@ampetronic.com www.ampetronic.com

5 Year Warranty

