ILD122 INDUCTION LOOP DRIVER

The ILD122 Induction Loop Driver has been designed for a wide range of applications such as small churches, small conference rooms, meeting rooms, etc. The equipment maintains the traditional Ampetronic high quality vocal and music reproduction, while adding new features to improve performance and operational facilities.

The ILD122 has extensive monitoring and indication facilities. In addition to the LED metering of compression and loop current, the amplifier includes a loop checking feature that tests the loop for high or low resistance at power-up and indicates any fault. Overload and over-temperature conditions are also monitored and indicated on the front panel.

In common with all Ampetronic's induction loop drivers, the ILD122 uses constant-current drive, which is necessary to achieve full compliance with national and international loop system standards. The equipment has safeguards designed in to ensure that all current EMC and safety standards are complied with under all practical operating conditions.

An integral metal loss corrector provides compensation for the frequency dependant loss caused by metal in building construction.

TECHNICAL SPECIFICATION

Microphone Input:
XLR, balanced, low noise.
15V DC Phantom power (selectable).
Sensitivity: -70dB at high gain
-55dB at low gain.
Overload level: -20dBu at high gain
-5dBu at low gain.

Line Input:
6.4mm Jack socket, fully balanced (unbalanced with mono plug).
Sensitivity: -30dBu. Overload at +20dBu. High impedance input. Overload protected.

Slave I/O:
Insert point for connecting Ampetronic Phase Shifter, etc.
Can be used as output for recording.
Signal level 1V RMS (+2.7dBu).

Preamp Power:
±15V DC max 0.3A for powering Ampetronic Microphone Preamplifiers and external processors.

Metal Loss Corrector:
Allows correction of system frequency response when losses occur due to metal in the building. Adjustable from 0 to 3dB per octave, using 1KHz as constant gain frequency. This does *not* compensate for the power loss caused by the metal.

Compressor / AGC Control:
36dB control range, with attack / decay time constants optimised for speech.
Front panel indication in 6 / 12dB increments.

Loop Current:
5 Amp Peak. Absolute peak current >7A.
Front panel indication in 2dB increments with PPM response.

Output Voltage:
Greater than 10V peak, to enable good frequency response with larger, inductive loops.
Patented circuitry prevents clipping, to ensure full EMC compliance.

Loop Impedance:
Designed for SINGLE-TURN loops, with DC resistance between 0.2Ω and 1Ω.

Area Coverage:
The nominal area that can be covered for a rectangular loop is 120m² (1300 ft²). Where the aspect ratio is narrow and long, see handbook. If losses occur due to metal or unusual loop position, then the area will be reduced.

Loop Condition testing:
Resistance of the loop is tested at switch-on. The output will only be connected if the loop resistance is between 0.15Ω and 1.6Ω, or 3Ω on high setting. Additional testing during normal running also checks for high loop resistance, using the normal audio signal.
A front panel LED indicates loop error.

Frequency Response:
80Hz to 6.5KHz ± 1.5dB at low level, measured as loop current. High frequency high signal level response is a function of loop size, loop current and signal content to ensure that no RFI generation takes place. Internal time constants are very short.

AC Power Input:
230V nominal, 45-65Hz, 115V AC version available.
120VA peak power.
Fuse: T 0.63A 250V.

Cooling:
The unit is designed such that the case acts as a heat radiator.

Dimensions :
Width: 215 mm
Height: 44 mm Length: 210 mm

Weight:
2.25kg.

CE Compliance:
The equipment meets all the applicable EMC and safety standards.

Options:
Rack mounts 1U space using RM-1U tray. Unit is ½ rack width.
Wall mounting with the WML-1U bracket set.

Loop Cable:
Selecting the right size loop cable to use