

Architectural & Engineering Specifications

Magellan - Counter Intercom

Magellan – Counter Intercom

The counter intercom system shall be an Ateis UK Megellan or equal and approved.

This shall comprise client microphone, customer microphone, loudspeakers, induction loop and control unit as required.

The system shall include sophisticated digital signal processing including automatic feedback cancellation to provide full duplex operation and high gain outputs.

The system shall be configured by a separate PC based application and shall then operate in a fully stand-alone mode to allow operation with minimal training and to deter unauthorised adjustment.

The system shall provide wide bandwidth audio performance to maximise speech intelligibility.

All customer-side equipment shall be sturdily constructed such that the components are resistant to damage.

The system shall include contact input/output to enable control of third party systems.

The induction loop transmitter shall be an encapsulated ferrite bar to enable installation in a wide range of positions according to the project requirements.

The unit shall provide the following:

- UC1 Central Unit
 - Metal case
 - 240W x 45H x 240D mm
 - 2kg net weight
 - Convection cooling
 - Mounting bracket included
 - IP23 protection
 - RS232 Port
 - 9 Way D connector
 - Programming
 - Input Port
 - 15 Way D connector
 - Microphones
 - Control I/O
 - Output Port
 - 15 Way D connector
 - Loudspeakers
 - Induction loop
 - AC Power Supply
 - IEC connector
 - 230V AC
 - 4W quiescent
 - 30W full load
- Audio Performance
 - 50Hz - 7kHz microphone to loudspeaker +/-3dB
 - 200Hz - 7kHz microphone to induction loop +/-3dB
 - <0.4% THD microphone to loudspeaker 1kHz 1W
 - <0.5% THD microphone to induction loop 1kHz
 - 60dB S/N microphone to loudspeaker
 - 60dB S/N microphone to induction loop

Architectural & Engineering Specifications

Magellan - Counter Intercom

- Audio Performance
 - +55dB max gain microphone to loudspeaker 1kHz
 - +70dB max gain microphone to induction loop 5kHz
 - 70dB max crosstalk 1kHz
- Staff Microphone Input
 - 43dB gain
 - 1.2k Ohm impedance
 - 22dBu maximum input level
 - 6V DC phantom power
- Customer Microphone Input
 - 40dB gain
 - 1.2k Ohm impedance
 - 18dBu maximum input level
 - 6V DC phantom power
- Staff/Customer Loudspeaker Output
 - 8W output
 - 40ohm impedance
 - <0.1% THD
 - 10dB voltage gain
 - Protection
 - Short circuit
 - Open circuit
 - High temperature
 - High frequency
- Induction Loop Output
 - 400mA/m field strength at 600mm
 - 38dB voltage gain
 - Protection
 - Short circuit
 - Open circuit
 - High temperature
 - High frequency
- Control Output
 - Voltage free relay
 - 500mA maximum current
 - 30V AC/DC maximum voltage
 - 150m Ohm contact resistance
 - 500Hz maximum toggle frequency
- Control Input
 - Requires voltage free closing contact
 - 1mA contact current
 - 50V DC maximum voltage
- Audio Programming
 - PC configuration
 - Stand alone operation
 - Digital signal processing
 - Staff side features
 - Selectable limiter
 - Selectable ANS
 - Selectable echo cancellation
 - Programmable gain
 - Programmable auto standby threshold
 - Programmable high pass filter
- Customer side features
 - Selectable limiter
 - Selectable ANS
 - Selectable echo cancellation
 - Programmable gain
 - Programmable auto standby threshold
 - Programmable high pass filter
 - Programmable induction loop level
- Common features
 - Automatic feedback elimination
 - Programmable auxiliary audio output
 - Control I/O programming
 - Signal level indication
- MAS Staff Microphone
 - Metal plate
 - Gooseneck microphone
 - Two control switches
 - Two indicators
 - 86W x 50H x 19.2D mm
 - 80W x 36H x 26D mm cut out required
 - Cable tail included with system
 - 8mV/Pa sensitivity
- MC Customer Microphone
 - Vandal resistant metal plate
 - Stub unidirectional electret microphone

Architectural & Engineering Specifications

Magellan - Counter Intercom

45W x 180H x 55D mm
2 x M4 55mm mounting studs

Cable tail included with system
14mV/Pa sensitivity

- HPU Staff/Customer Loudspeaker

Vandal resistant steel front
Single transducer

135W x 157H x 99D mm
Cable tail included with system
85dB sensitivity 1W/1m

- BME Induction Loop Bar

PVC tube
Encapsulated ferrite bar
Integrated loop coil

184W x 21H x 21D mm
Cable tail included with system



Ateis UK Ltd
102 Victoria Street
St. Albans
Hertfordshire
AL1 3TG

T: 08456 521 511
F: 08456 522 527
E: infoplease@ateis.co.uk
Web: www.ateis.co.uk

IMPORTANT

Specifications are subject to change
without prior notice. More information
can be found at the website:

www.ateis.co.uk.

© 2009 Ateis UK Ltd