



# MAGELLAN COMPACT System



## Full-Duplex Digital Counter Intercom System with Induction Loop

MAGELLAN COMPACT is a digital counter intercom system which allows clear and simple speech at information booths, point of sales, and receiving desks wherever glass disrupt conversation between people. This system provides Full Duplex and excellent communications through obstructions. MAGELLAN COMPACT is the best intercom solution for applications with limited space requiring perfect voice transmission even in the most difficult acoustic conditions. The combination of this system with the induction loop antenna enables the hard of hearing people reception.

### BENEFITS OF THIS SYSTEM

- Clear and simple communications through glass obstructions
- Full Duplex conversations
- Anti-larsen and echo cancellation functions
- Automatic variation of the amplification level according to ambient noise levels.
- Independent levels adjustments for agent and client sides
- Compact system which can be integrated in limited area

### AGENT SIDE

- A **desktop compact** including a flexible microphone and a built-in loudspeaker, **PMUC**. It includes
  - Control keys: ON/OFF and over-amplification (6 dB : double noise level)
  - LED status indicators: ON/OFF, 6 dB, BME

### CLIENT SIDE

- An **antivandal proof microphone**, with unidirectional electret cellule, **MC** or **MCU**.
- An **antivandal proof** wall or desk mount **loudspeaker, HPU**.
- A quadratic **induction loop antenna for hard hearing people, BME**.



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### MAGELLAN COMPACT SYSTEM CONSISTS OF THE FOLLOWING COMPONENTS



#### PMUC

Compact central unit with integrated electronics for digital speech processing (DSP). It contains a fixed mounted Gooseneck Mic, a loudspeaker and contains all functional buttons to start the intercom call.



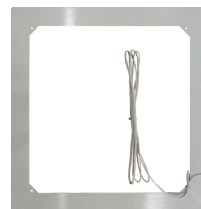
#### MC or MCU

Vandal-proofed unidirectional microphones, to be mounted on the customers side.



#### HPU

Loudspeaker unit to be mounted on customer side.



#### BME

The BME frame is a magnetic hearing loop which ensures accessibility for hearing impaired persons with compatible hearing aid (T position). This new high-performance loop, in the form of a frame, meets the requirements of the new EN 60118-4 standard for the hearing impaired, effective as of March 2009.

### FEATURES

- **Full Duplex**  
Natural two-way communication in both directions.
- **Fully Digital (DSP)**  
The central unit integrates a Digital Signal Processor.
- **Anti-larsen and echo cancellation functions**  
To avert larsen and echo effects caused by the Full Duplex communication, an echo cancellation process is used by the program to analyze and define the disturbance signal parameters and to eliminate disturbance from the usable signal.
- **Automatic variation of the amplification level according to ambient noise levels**  
The DSP measures the noise level in the hall via the client or agent microphone, and automatically adapts the gain of each channel to maintain good audibility.
- **Limiter**  
This reduces the sound level in the speakers when client speaks too loudly or too close to the microphone.
- **Automatic standby mode**  
The system goes automatically into standby mode (programmable parameter) and wakes from sleep when it detects voice activity. It differentiates speech and background noise.
- **Antivandal client microphones and speakers**  
Client microphones and speakers are suitable for outdoor applications and sensitive areas.
- **Programmable output levels**  
Independent levels adjustments for agent and client sides
- To make the system foolproof, all settings are made by using a PC software program installed on a laptop computer which is connected to the Central Unit via a USB serial connection.

### SPECIFICATIONS

- Power supply: 230 VAC/12 VDC/1.5A
- Max input level: -18 dBu
- Distortion: <0.54% to 1W
- Bandwidth: 120 Hz ~ 7 kHz, ±3 dB
- Conditions for use
  - Temperature of -10 °C ~ +40°C
  - Relative humidity: 100%
  - Water-tightness: IP23