



Commend – Communication and security for everyone

Induction loop amplifier modules for sound transmission to hearing aids are an essential part of Commend's product portfolio. Upgrading WS stations to barrier-freeness has never been easier. As an add-in circuit board with on-board induction loop, the module may be small in size but is a huge advantage for users of hearing aids. Designed specifically for public locations such as building reception areas or on-street help points, the modules deliver Intercom audio in high Commend quality directly to hearing aids. Being hard of hearing doesn't have to be a barrier – especially with Commend induction loop modules. Take the opportunity to upgrade your system to barrier-freeness and provide optimum conditions for all Intercom users with the benefits of the world's leading Intercom technology.

Features and Highlights

- A fully integrated, IEC 60118-4 compliant induction loop system enables wearers of hearing aids to receive Intercom audio signals in clear, uninterrupted quality.
- Flexible integration into vandal resistant or polycarbonate WS stations without camera or TFT-display
- Energy-efficient and power-saving technology with low heat generation.
- Functions as MLC (Metal Loss Correction) and AGC (Automatic Gain Control) for easy startup and faultless operation.



Technical data / System requirements

Technical Data

Input:	Input impedance 10kΩ Sensitivity - 15dBu for max output Overload level +10dBu
Output: D Loop resitance: 0.1Ω to 1.0	Drive Voltage: max. 6.5 V _{ims} rive Current: 2.8 A continuous 1kHz sine wave Ω resistive or 1.5 Ω maximum reactive impedance
Frequency response:	80 Hz to 8 kHz: - 3dB
MLC (Metall loss correction)	: 0 to -3dB/ octave
Operating temperature range	e: -20°C to 70°C (-4°F to 158°F)
Storage temperature range:	–20°C to 70°C (–4°F to 158°F)
Relative humidity:	up to 95% not condensing
Connection:	- pluggable screw terminals - JST plug (type: PAP-02v-s)
Power supply:	external supply 15–26 VDC (max. power consumption 8 W)

Extent of supply

- Induction Loop Amplifier Module
- Induction Loop and mounting kit
- Sticker with hearloop symbol
- Line-In connection cable

Requirements

- Power supply: 15 VDC 26 VDC
- WS station without camera or TFT-display
- Flush Mount Kit (WSFB 50x) or Surface Mount Kit (WSSH 50x)

Mounting instructions / Restrictions

- Do not expose the station to extreme temperature.
- Observe the country specific standards for installation, mounting and configuration.
- When opening the stations ESD precautions must be observed.
- The housing may only be opened by authorised service engineers.
- Induction Loop Performance compliant with IEC 60118-4 (when correctly installed)
- Metal Structures significantly affects performance of the induction loop system. The magnetic field generated by an induction loop system, induces a current in any closed path of a metal structure placed in the vicinity of the induction loop. These induced currents tend to weaken the magnetic field and cause loss.

Examples of metal structures:

- Lightweight floor construction with a (usually profiled) metal sheet under a thin reinforced concrete slab.
- Girders, beams, constructional metal work
- Metal cladding and walls
- Metal box construction (elevators, lifts)



Quick Start

Please follow the following instruction for the installation of the Induction Loop Amplifier module:

- Open the WS station instruction see respective short reference
- Disconnect the station from the Intercom network and if used, from the external power supply.
- Mount the Induction Loop on the surface or flush mount box as shown in the following picture



Note:

It is mandatory to install the induction loop on the right side of the housing, as shown in the connection diagram. Otherwise disturbing hum may occur. For the installation use the attached mounting clips and screws (in extent of supply).

Surface or Flush Mount Kit

- Snap the Induction Loop Amplifier module in the slot of the WS station:
- It is only possible to snap the module in the middle slot of the WS station!
- If in the middle slot a Camera module or a TFT-Display module is used, it is not possible to mount the induction loop amplifier module.



Quick Start

- Carry out the connection of the induction loop, signal input and power supply
 - Connect the loop cable (polarity does not matter) via the screw terminals as shown in the following picture. _
 - Connect Line-In with the connection cable (in the extent of supply) as shown in the following picture.
 - Connect power supply (15 VDC 26 VDC) as shown in the following picture.
 - Note: If an external power supply is used for the terminal, it is possible to use this power supply also for the Induction Loop Amplifier Module.



- Switch on the external power supply and check if the green "Power" LED illuminates!
- The potentiometers "Level-Input", "MLC" and "Loop Current" are preset at factory delivery.
- Test the performance of the system using a loop receiver or field strength meter and adjust 'MLC' & 'LOOP CURRENT' to achieve acceptable performance -_ please consider the respective norm!
- Mount the Intercom Station see short reference Surface / Flush Mount Kit.
- Place the sticker with the hearloop symbol onto the frontplate of the Intercom Station.

Quality tested. Reliable. Smart.

COMMEND products are developed and manufactured by Commend International in Salzburg, Austria.

The development and manufacturing processes are certified in accordance with EN ISO 9001:2015.

A strong worldwide network

COMMEND is represented the world over by local Commend Partners and helps to improve security and communication with tailored Intercom solutions.

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Page 4 4

