EE 872AEG

2-Wire DSP Intercom Station Series EE 872AEG

The Intercom station EE 872AEG has been developed especially for control rooms and areas with high ambient noise levels. Due to its 20 W amplifier, it can be heard even in the loudest of rooms. The graphic display with backlight shows a multitude of functions. Via the menu function, it is possible to scroll through a subscriber index or function list and to call up a specific function directly. Calling number and name are indicated as well as messages, call type and events, e.g. alarms. A bright multifunction LED clearly indicates different conditions of the station.

The Intercom station EE 872AEG is manufactured in state of the art DSP technology, which enables functions such as OpenDuplex®. The station is prepared for future functions, which can be activated by updating the software. Additionally, it is equipped with one input and one output, which are freely configurable.

EE 872AEG

Master and control desk station with active add-on loudspeaker, cardioid gooseneck microphone, ergonomic polycarbonate housing, white illuminated full graphic display, standard silicone keypad with „T" and „X" keys as well as six function keys, multifunction LED, 3 m (9.8 ft) connection cable and connections for headphones and headset.

Technical Data – Benefits

TECHNICAL DATA

IP rating:	IP50, resistant against dust, dirt, aggressive air
Keyboard:	silicon type, activation force: 2.2 N, 1 x 10⁶ cycles
Housing:	shock proof ABS polycarbonate
Microphone:	electret noise cancelling microphone with cardioid characteristic for 3–10 cm (1–4 in) speaking distance
Loudspeaker:	magnetically shielded broadband type, sound pressure level: 82 dB/1 W/1 m (3.28 ft), 8 Ω
Amplifier:	built-in amplifier 20 W output power with built-in loudspeaker: 15 W
Display:	white illuminated, full graphic 64 x 84 DOT, 8 lines x 14 characters, temperature compensated
Call indication:	multifunction LED (colours: red, green, blue)
Position switch:	3D gravitation sensor
Input:	1 input for floating contacts, max. 1 kΩ
Output:	open collector output (30 VDC / 50 mA)
Transmission bandwidth:	16 kHz
Operating temperature range:	0 °C to +50 °C (32 °F to 122 °F)
Storage temperature range:	–20 °C to +50 °C (–4 °F to 122 °F)
Relative Humidity:	up to 95 %
Plug:	modular jack 6/6 for connection to Intercom Server modular jack 4/4 for connection of headset, headphones
Cabling:	star feed, 2-wires, twisted
Power supply Intercom station:	from Intercom Server External, floating power supply at long line length: 20–24 VAC or 28–35 VDC, 100 mA
Power supply applifier:	15 VDC
Signalling:	2B + D (2 x 64 kBit/s speech, 16 kBit/s data)
Dimensions:	205 x 280 x 95 mm (8.0 x 11.0 x 3.7 in) (gooseneck 400 mm / 16.9 in)
Weight incl. package:	about 800 g (1.8 lbs)
Colours:	available in black (like RAL 9011)

EXTENT OF SUPPLY

1 Intercom station including:

- Connection cable (3 m / 9.8 ft), pluggable at both sides
- Short reference and operating instructions

BENEFITS

- White illuminated graphic display with on-screen menu, brightness and contrast adjustable
- Excellent 16 kHz speech quality, even from a distance (up to 7 m / 23 ft)
- OpenDuplex® with powerful Blackfin DSP
- DSP technology, prepared for software download of future functions
- Voltage Monitoring, i.e. when in use of greater line length, the volume is reduced automatically
- High volume levels due to 15 W amplifier
- Bright multifunction LED indicates the station's operation status (e.g. call indication)
- Connection of headset or headphones

LINE LENGTH

Cable type	Power Supply Intercom Server		
	24 VAC	30 VDC	26 VDC
Ethernet cable e.g. Cat. 5 Loop resistance: 190 Ω/km Capacity: 48 nF/km (14.4 nf/1,000 ft)	1,500 m (4,922 ft)	1,500 m (4,922 ft)	900 m (2,953 ft)
Telecommunication cable e.g. F-YAY; ø 0.6/0.8 mm; AWG: 22/20 Loop resistance: >135 / >73 Ω/km Capacity: 100 nF/km (30.5 nf/1,000 ft)	1500 m (4,922 ft)	1400 m (4,593 ft)	800 m (2,625 ft)

With these line lengths, max. the volume level 9 and display backlight intensity 9 are possible.

SYSTEM REQUIREMENTS

FULL SCOPE OF OPERATION only with Intercom Server generation GE 800 / GE 300:

- GE 800 (min. PRO 800 1.0) with G8-GED
- GE 300 (min. PRO 800 1.0) with G3-GED

BACKWARDS COMPATIBILITY to Intercom Server generation GE 700 / GE 200:

- GE 200 (as of Pro 05.4) with G2-GED-4
- GE 700 (as of Pro 05.4) with G7-GED-4 (min. software V02.2)

Note: This limited scope of function affects applications like volume control (only possible in a range from 0 to 9) or call indication (only red light indication).

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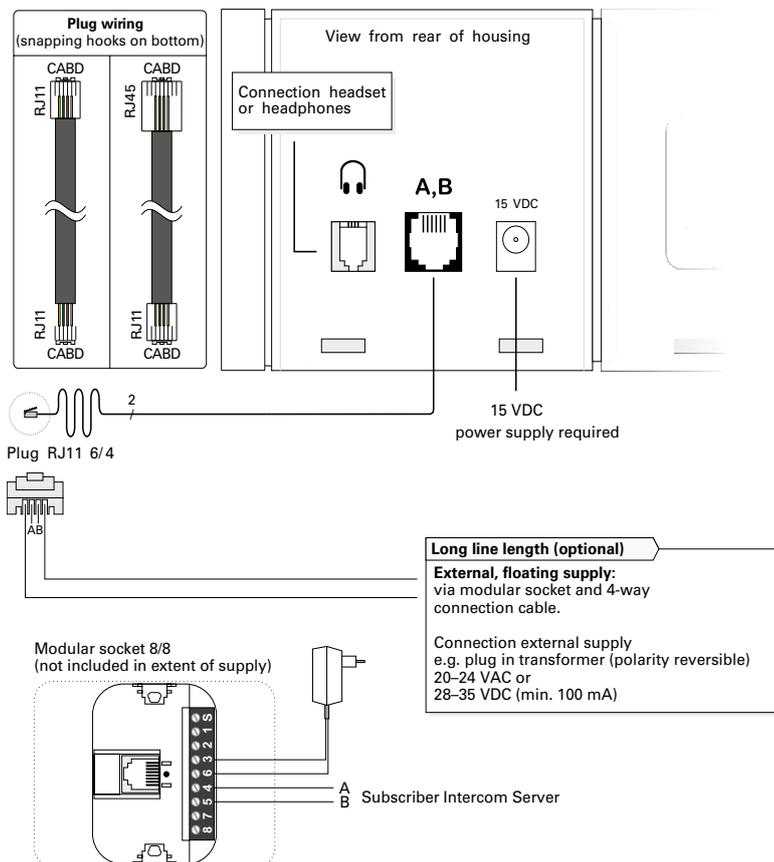
Installation

PRECAUTIONS

- When opening the stations ESD, precautions must be observed.
- The stations may only be opened by authorised service engineers.

POSITION AND MOUNTING INSTRUCTIONS

- Do not expose the station to extreme temperatures (below 0 °C or above +50 °C / 32 °F to 122 °F).
- The desk station may only be positioned on level surfaces because of the handset function. The angle of inclination may not be more than 30 degrees.
- The station must stand on its own, not e.g. in a shelf or under a filing tray.
- Do not position the stations besides the base station of a cordless phone.

CONNECTION EE 872AEG

Plug wiring
(snapping hooks on bottom)

CABD   CABD
RJ11   RJ45
RJ11   RJ11
CABD   CABD

Plug RJ11 6/4

View from rear of housing

Connection headset or headphones

A,B   15 VDC

15 VDC power supply required

Modular socket 8/8
(not included in extent of supply)

A
B   Subscriber Intercom Server

Long line length (optional)

External, floating supply:
via modular socket and 4-way connection cable.

Connection external supply
e.g. plug in transformer (polarity reversible)
20–24 VAC or
28–35 VDC (min. 100 mA)

Note: The connection for an external loudspeaker can be switched to an input or open-collector output via internal jumper (output relay retrofittable).

Attention: The conversion may be carried out by authorised sales partners only!

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