



*HEAVY-DUTY INDUSTRIAL STATION*

# EE61AC

Digital 2-wire industrial station for use in the harsh environments of heavy industries, e.g. Factories, Steel Works, Chemical Plants, Oil Refineries, Ports, Shipyards, Power Stations, etc. With DSP-functions for e.g. loud-speaker-microphone monitoring and audio monitoring.



## Heavy-duty industrial stations

## EE61AC

The industrial stations are made of high-strength polyester reinforced with fibreglass. They are issued in high-visibility bright orange (RAL 2004) and have an IP 65 rating. The housing has additional shock absorber trim on the sides.

The intercom unit PCB is based on the latest DSP-technology and manufactured using the latest SMD technology. Speech, data and commands for control and indication are digitally transmitted to the communica-

tion server over two wires.

The DSP-technology enables loudspeaker- / microphone monitoring and audio monitoring and is prepared for future functions, which easily can be activated by updating the software. The stations also feature 2 relays that can be programmed for functions such as switching of beacons, horns, external loudspeakers etc. All digital DSP intercom stations are prepared for OPEN DUPLEX.



### 1. EE 61AC

Sub station for use as emergency call station for public areas, with a large SOS call button, integrated loudspeaker, integrated electret microphone and a green function light.

**Global Intercom** by Commend

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# Technical Data - Benefits

# EE61AC

## TECHNICAL DATA

IP rating:	IP 65, resistant against: all acids, light lyes, ultra violet radiation
Fire proof:	V0 according to UL
Keyboard:	Industrial push-buttons with micro switch
Housing:	Polyester reinforced with fibre glass
Microphone:	omnidirectional electret microphone for max. 7 m (23 ft) speaking distance
Loudspeaker:	Special membrane type for optimal sound quality, sound pressure: 92 dB/1 W/1m(3.3ft)/1 kHz
Amplifier:	Output power: 1.5 W, load: 8 ohm
Outputs:	2 relay outputs 30 V/3 A
Inputs:	2 inputs for floating contacts
Frequency range:	200 – 7,000 Hz
Operating temperature range:	-20 °C to +60 °C (-4° F to 140° F)
Storage temperature range:	-20 °C to +60 °C (-4° F to 140° F)
Relative humidity:	up to 95 %
Plug:	plugable screw terminals
Cabling:	star feed, 2 wires, twisted pair + power supply
Power supply:	external, floating power supply 12-24 VAC or 15-35 VDC; 500 mA
Measurements:	175 x 312 x 142 mm (6.9 x 12.3 x 5.6 inch) (without PG13 thread cable glands)
Weight incl. package:	2,980 g (6.6 lbs)
Colour:	Orange (RAL 2004)

## EXTENT OF SUPPLY

- 1 industrial station including:
- PG13.5-thread cable glands and gaskets
  - Short reference

## BENEFITS

- Communication in OPEN DUPLEX
- For harsh and tough industrial environments
- IP rating: IP 65
- Cabling with 2 wires, star feed, fully digital transmission of speech and data
- Loudspeaker-/microphone monitoring & audio monitoring
- DSP-Technology
- Open for future functions, which easily can be activated by updating the software
- Internal amplifier with 1.5 W power
- Shock absorber trim
- 2 inputs for floating contacts (e.g. door open indication, broken barrier indication, etc.)
- 2 relay outputs for door opener, etc.
- Excellent speech quality

## SYSTEM REQUIREMENTS

GE 200 (min. Pro 05.0) with G2-GED-4 (all software versions)  
 GE 700 (min. Pro 05.0) with G7-GED-4 (software min. V02.0)

## LINE LENGTH

Cable type: AWG	ø 0.5 mm 24	ø0.6 mm 22	ø0.8 mm 20
F-YAY (Installation cable PVC, 100 nF/km, 30.5 nf/1000 ft)	*	2.000 m (6562 ft)	2.000 m (6562 ft)
J-02YS(St)Y (Cat. 5 cable, foamed polyethylene, 45 nF/km, 13.7 nF/1000 ft)	3.000 m (9843 ft)	3.000 m (9843 ft)	3.000 m (9843 ft)

\*...no data, because this diameter is not available for this cable type.

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# Installation

# EE61AC

## PRECAUTIONS

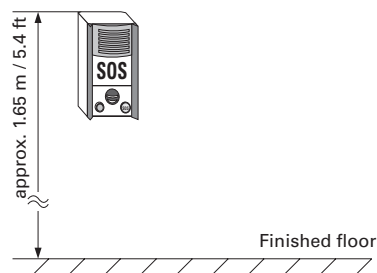
- When opening the stations, ESD precautions must be observed.
- The stations may only be opened by authorised service engineers.

## MOUNTING INSTRUCTIONS

- Do not expose the station to extreme temperature (under  $-20^{\circ}\text{C}$  or above  $+60^{\circ}\text{C}$  /  $-4^{\circ}\text{F}$  to  $140^{\circ}\text{F}$ ).

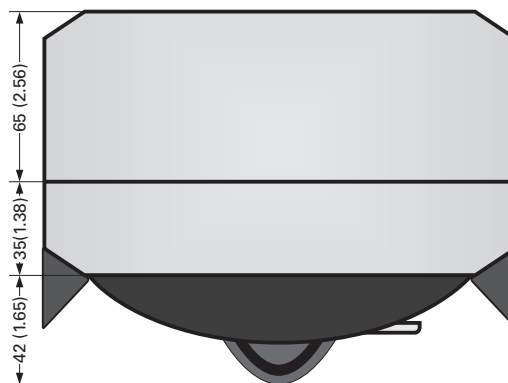
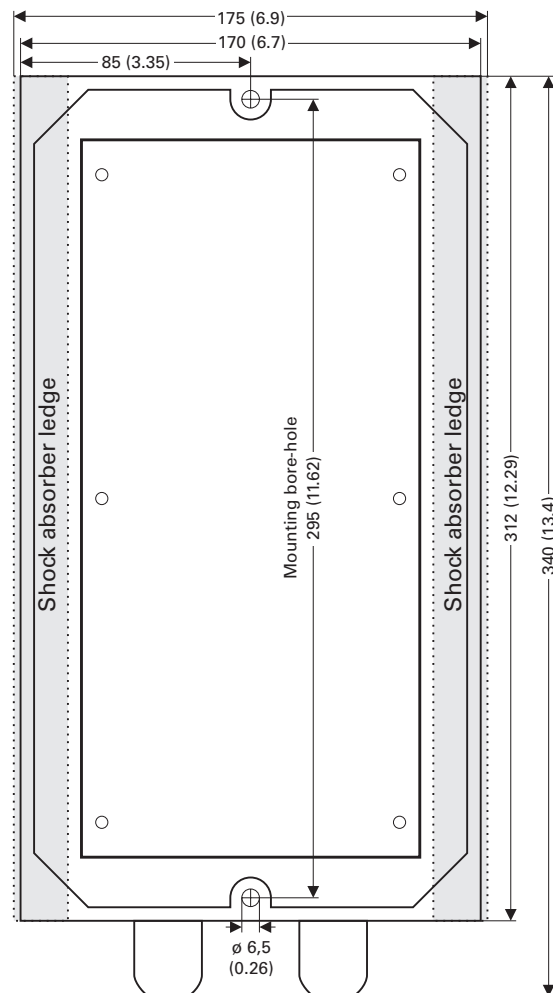
### Recommended Mounting height

The upper edge of the station approx. 1.65 m (5.4 feet) from the finished floor, so that the microphone is approx. 1.40 m (4.6 feet) above the floor. Please adapt the mounting height to the individual needs.



## MEASUREMENTS

Measuring units: mm (inch), not scale!



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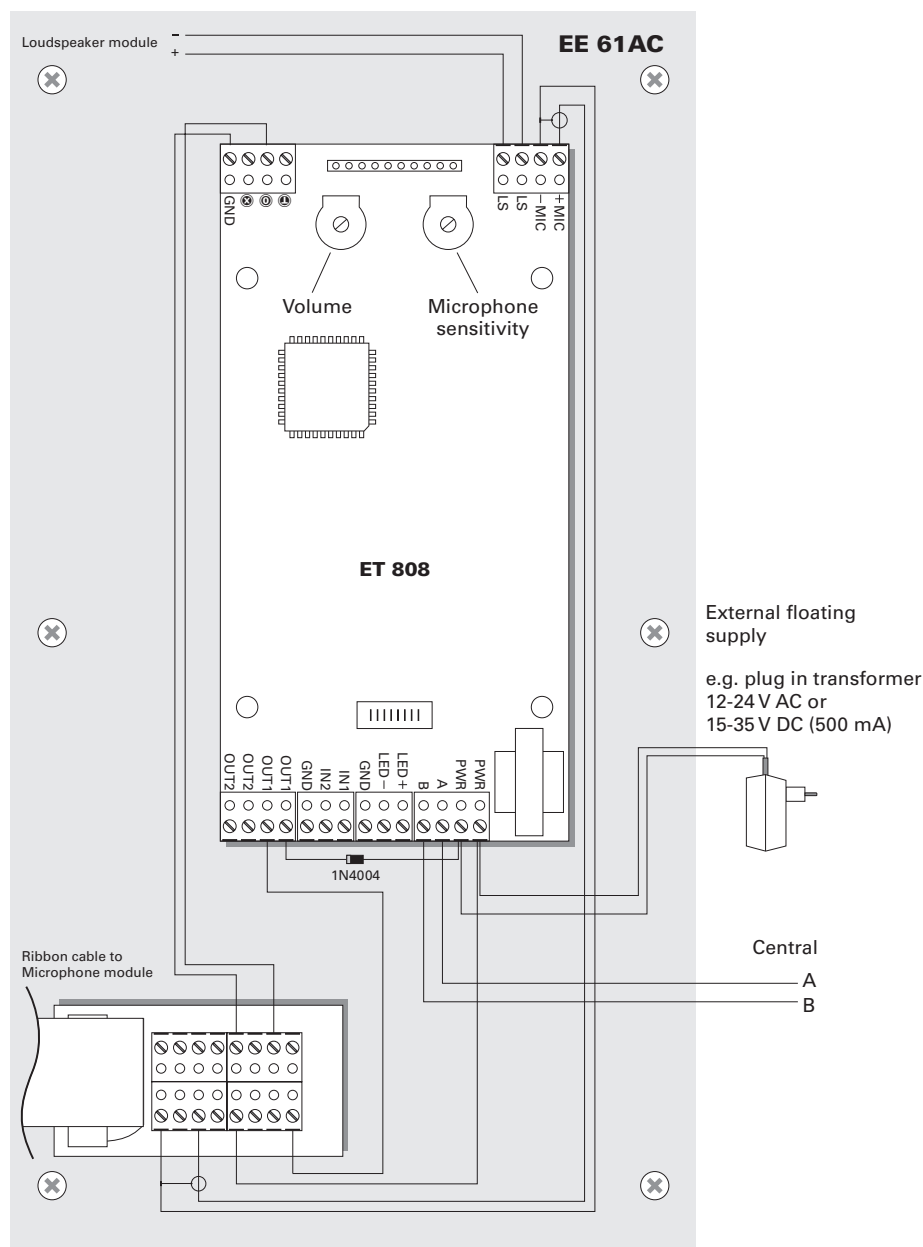


# Installation

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### CONNECTION DIAGRAM

If the function lamp is used, in CCT „Loudspeaker-/Microphone Monitoring OK“ in the combo-box „Function Relay 1“ must be programmed.



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