

GEC 880



Digital Counter Intercom GEC 880

Digital desktop counter Intercom systems fulfil the widest variety of requirements – from security solutions in banks to ski-lift stations and ticket counters to isolation wards in hospitals.

The modular construction of the system allows any number

of desktop counter Intercom systems to be combined into one system. The basic unit is a digital Intercom station, which is available in two different versions (with and without gooseneck). Therefore it is very simple to select the optimum station for every counter requirement.

1. GEC 881

Digital desktop counter call station with plastic reinforced silicon keypad and built-in microphone with omnidirectional characteristic for unrestricted speech. Keypad with 15 keys, labelled with non-verbal pictograms.

Extent of supply: Outlet for surface mounting, 3 m connection cable.

Power supply and further accessories must be ordered separately.

2. GEC 882

Digital desktop counter call station with plastic reinforced silicon keypad, anti-tilt device and cardioid type goose neck microphone. Keypad with 15 keys, labelled with non-verbal pictograms.

Extent of supply: Outlet for surface mounting, 3 m connection cable.

Power supply and further accessories must be ordered separately.

Technical Data – Benefits

TECHNICAL DATA

IP-rating:	IP 30
MTBF:	1.37 mio. h
Loudspeakers:	Internal: 8 Ohm External: connection possibility for loudspeaker(s) 4 – 16 Ohm
Internal microphone:	GEC 881: omnidirectional electret microphone GEC 882: gooseneck electret noise cancelling microphone with cardioid characteristic both with adjustable speaking zone
Amplifier:	outside: built-in amplifier with 10/15 W inside: built-in amplifier with 0.6/0.8 W
Power supply:	12 – 18 VDC, 1.2 A
Cabling:	10 wires (8 signal + 2 power supply)
Connection:	RJ 10 socket (for headset/handset) RJ45 socket (for outside microphone, outside loudspeaker, proximity switch or bell button, AUX-output)
Frequency range:	500 Hz – 15 kHz
Operating temperature range:	0° C to +50° C (32° F to 122° F)
Storage temperature range:	-20° C to +60° C (-4° F to 140° F)
Relative humidity:	20% to 80%
Measurements:	GEC 881: 66 x 55 x 230 mm (2.6 x 2.2 x 9.1 in) GEC 882: 179 x 280 x 230 mm (7.1 x 11 x 9.1 in) length of gooseneck: 422 mm (16.6 in)
Weight incl. package:	GEC 881: 280 g (0.6 lbs) GEC 882: 440 g (1 lb)

BENEFITS

- Excellent speech clarity, even under the most difficult acoustic conditions
- OpenDuplex®: Simultaneous speaking and listening in both directions
- Keypad with easily understandable, non-verbal pictograms
- Exceptionally high volume in the public area, additional loudspeakers can be connected
- Suitable for communication hatches of any size
- Continuous adaptation to the acoustics of the room
- Any number of desktop counter Intercom systems can be operated side-by-side (GEC 882 only)
- Easy and quick installation
- State-of-the-art DSP technology
- Future proof, via firmware updates

EXTENT OF SUPPLY

Counter Intercom system including:

- Wall outlet for surface mounting
- 3 m (9.8 feet) connection cable ASKKAT6-3 from operator station to wall outlet
- Manual and quick installation guide

A fitting power supply, microphone and loudspeaker must be ordered separately (see page 3 and page 4).

NOTE

CE conformity is only valid with the PA24W15V power supply.



Accessories

PA 24W15V

24 W high-efficiency switched-mode power supply. The power cable must be ordered separately.

TECHNICAL DATA

Primary:	90 – 264 VAC (47 - 63 Hz)
Secondary:	15 VDC, 1.6 A, 24W
Efficiency:	75 - 85%
Temperature range:	-5° C to +40° C (-23° F to 104° F)
Measurements:	W 54 mm x H 110 mm x D 38 mm (2.1 x 4.3 x 1.5 in)
Weight:	approx. 175 g
Colour:	Black
Cable length:	1.5 m (4.9 ft)



POWER CABLE

The power cable must be ordered separately.

TECHNICAL DATA

Types:	KAB-C13-AU (Australia) KAB-C13-EU (Europe) KAB-C13-UK (Great Britain) KAB-C13-US (USA)
Cable length:	1.5 m (4.9 ft)

Q400

Miniature, cardioid-type extension microphone. Housing made from impact-resistant and distortion-free plastic, can be bonded to a flat surface. Improved acoustics.

TECHNICAL DATA

Directivity:	hypercardioid to the front
Sensitivity:	15 mV / Pa
Frequency range:	100 Hz – 8 kHz
Temperature range:	-25° C to +70° C (-13° F to 158° F)
Cable length:	2.8 m (9.2 ft) shielded
Measurements:	W 24 x H 42 x D 13 mm (1.69 x 0.83 x 0.51 in)
Colour:	Black



MIC 480

Waterproof, omnidirectional build-in electret microphone for use with up to 10 mm (0.4 inch) thick glass panes or aluminium panels.

TECHNICAL DATA

Type:	Back electret condenser microphone
Directivity:	omnidirectional
Sensitivity:	5.6 mV / Pa
Frequency range:	20 Hz – 16kHz
IP rating:	IP 53 (only if installed correctly)
Temperature range:	-20°C to +60°C (-4° F to 140° F)
Colour:	black
Measurements:	ø 14 x D 20 mm (0.55 x 0.79 in)
Colours:	MIC480: 4 m (13.1 ft) shielded MIC480S-10: 10 m (32.8 ft) shielded



Accessories

AL10-16

Compact, high-efficiency column speaker. Weatherproof polyamide housing for indoor and outdoor use. Can be rotated and tilted. Mounting bracket included.



TECHNICAL DATA

Load rating / music power:	12/15 W
Impedance:	16 Ohm
Sound Pressure Level:	94 dB/W/m
Max. Sound Pressure Level:	110 dB (1 m)
Transmission range (-3 dB):	220 - 16 000 Hz
Transmission angle (-6 dB):	Horizontal (3 m): 1/4/8 kHz: 220°/60°/60° Vertical (3 m): 1/4/8 kHz: 140°/100°/30°
Material:	housing: plastic, grille: metal
Net weight:	1,600 g
Connection:	2-core cable (50 cm)
Accessories (included):	U-type mounting bracket
Dimensions (including brackets):	W 100 mm, H 300 mm, D 98 mm (3.9" x 11.8" x 3.9")
Colours:	Black (AL10-16S), White (AL10-16W)

KABJTAG3

Cable for firmware update of the stations GEC 881 / GEC 882 via PC. Connection via parallel port of the PC. DB-25 parallel port plug to 6-way header plug.

TECHNICAL DATA

Weight:	approx. 73 g
Cable length:	150 cm (60 in)



Installation

MOUNTING THE CLIENT SIDE



The loudspeaker must be mounted at least 1 m / 40 inches away from the microphone. If possible, the loudspeaker should not face the microphone directly because this leads to an echo of the operator voice at the inside station.

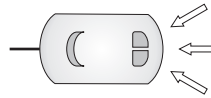
1. Mounting version A: Loudspeaker at the top (best for acoustic separation of multiple queues)
2. Mounting version B: Loudspeaker at the side in level of ears (best for single queue situations)

If possible, the microphone should be mounted at the bottom of the counter, in direction to the client. If this is not possible, the microphone has to be mounted aside in direction to the client. The closer the microphone is mounted to the clients mouth, the lower the volume required at the operator station.

3. Mounting version A: Microphone mounted in the middle of the counter
4. Mounting version B: Build-in microphone at the side

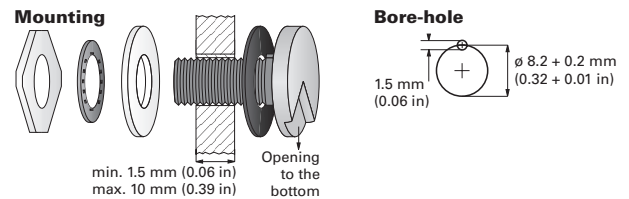
MICROPHONE

Mouse microphone Q400



This microphone has a special directional characteristic as shown in the picture. It should be mounted in such a way, that the speech of the client enters the microphone in direction of the arrows. The microphone can also be used for outdoor mounting, but it must be protected against rain and moisture. Technical data [see page 4](#).

Build-in microphone MIC 480



The build-in microphone is designed to fit panels up to 10 mm (0.4 inch) thick. Technical data [see page 3](#).

Note: To fulfill the IP53-classification the opening of the microphone must face to the bottom.

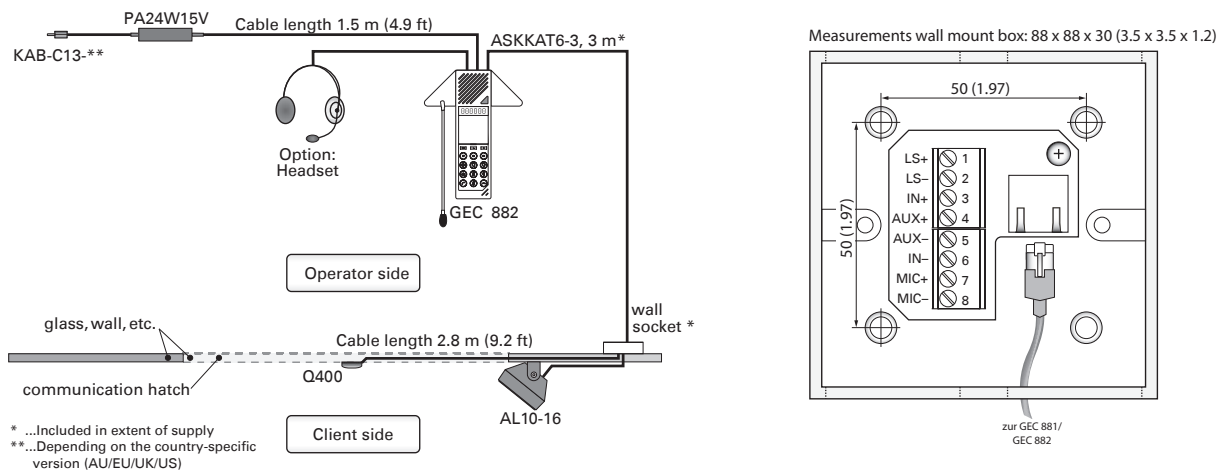
PRECAUTIONS

- With regard to the CE mark, the counter Intercom is suitable for the following types of application: residential buildings, office and commercial premises, small businesses and industrial premises with public mains supply.

Installation

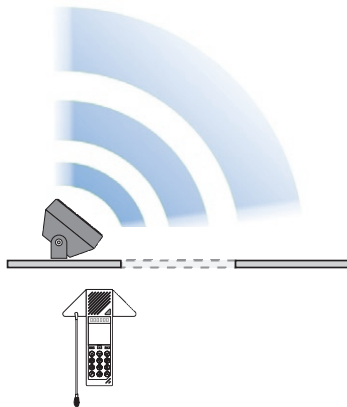
CONNECTION DIAGRAM

Example: Cabling of the components of a counter Intercom station with station GEC 882, outside loudspeaker AL10-16, outside microphone Q400, power supply PA24W15V and an optional headset.



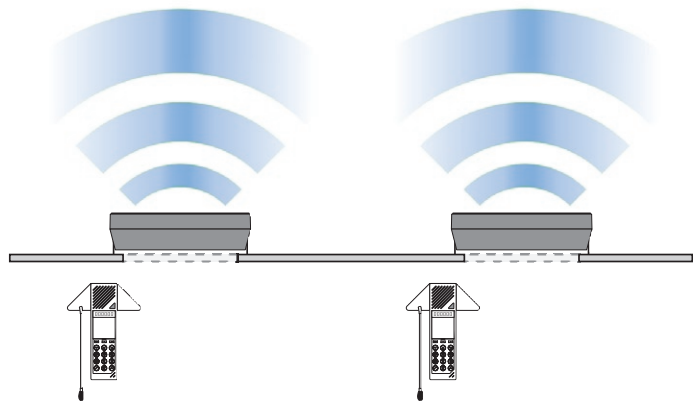
POSITIONING THE OUTSIDE LOUDSPEAKER

Example for a single counter:



In this setup the speech of the operator is audible in the entire area in front of the counter.

Example for multiple counters:



Example how to utilize the directivity of a speaker line array (e.g. AL10-16) for separately addressing individual queues via horizontal mounting above the counter.

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 9001:2008**.

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