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Features

- Full duplex mode
- PTT mode
- Boost mode
- Headset interface
- Audible signal ⁽¹⁾
- Switching output (Open Drain) for example: door opener
- Footswitch interface ⁽²⁾
- AEC (Automatic echo cancellation)
- NR (Noise reduction)
- NG (Noise gate)
- Individual adjustment of the volume for listening / speaking / headset / via +/- keys
- Balanced microphone inputs and amplifier outputs

Technical Data

Voltage/current	15VDC/700mA
Maximum power consumption (limited by power supply)	<15W
Power consumption in OFF-mode	<0.15W
Maximum output power at 8Ω/channel.....	5W
Minimum loudspeaker impedance.....	8Ω
Temperature:.....	10 - 40 °C
Humidity:	20 % to 75 % (non condensing)
Air pressure:	700 hPa to 1060 hPa

⁽¹⁾ Custom audio playback possible (.wav file)

⁽²⁾ Remote control of the ① button



PUBLIC IV

Service and Installation Manual



Basic components Service side



Microphone-loudspeaker unit
RAL Colour 7035
Label 32.054.440.001

40.054.440.001



Connection Hub
Label 32.054.014.005

40.054.443.001



FOX12 Medical Power Supply, 100-240V~/50-60Hz,
1.8m cable, label 32.054.803.003

40.054.803.006



RJ45 patch cable KAT5e, 3m
labels 32.054.036.001, 32.054.036.002

40.054.327.002

Components public side



Miniature speaker system MKS-26 / WS
8 Ohm, 10 Watt, 5 m speaker cable 11.008.03

40.006.147



Loudspeaker flush mount, 5 Watt, 8 Ohm with flush
mount box, anodised aluminium cover,
5 m loudspeaker cable 11.008.03

40.006.102



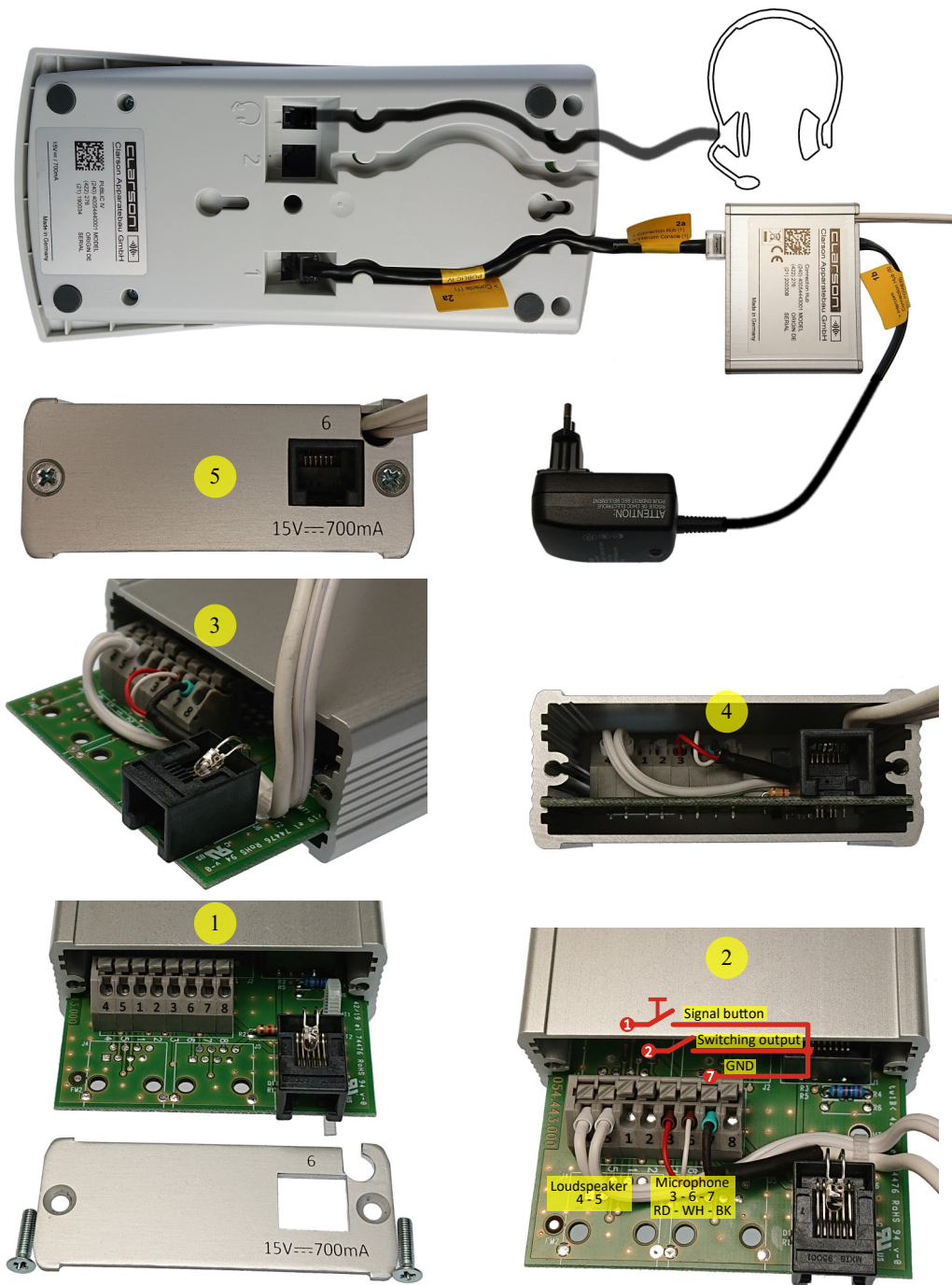
Omnidirectional electret built-in microphone
EM 258, in stainless steel capsule, \varnothing 8 x 5.5 mm,
3.5 m microphone cable

40.005.017.005



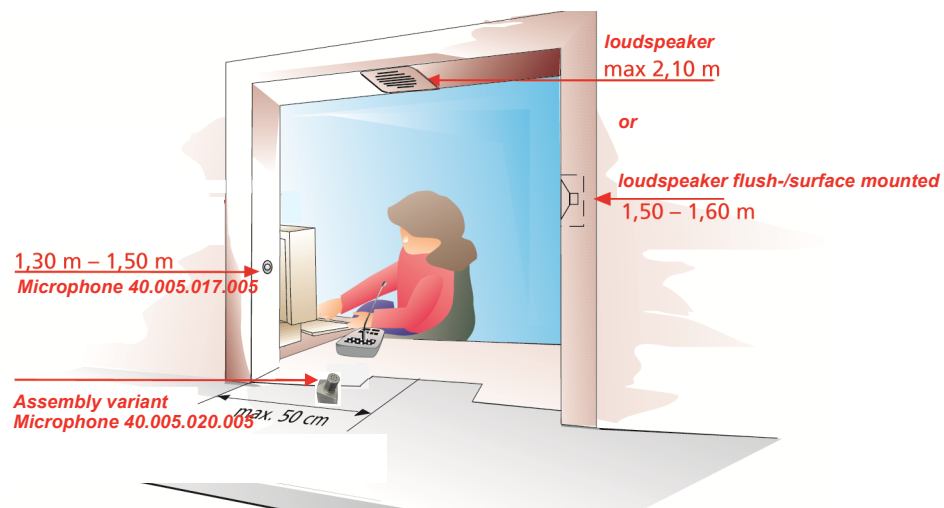
Directional electret microphone
in stainless steel housing including microphone holder
made of stainless steel, safety pin, 25 mm
Threaded tube, 3.5 m microphone cable

40.005.020.005



Planning Advice

1. Any aperture in the window between public and service side will affect the performance of the system.
The more the counter is enclosed, the better the system will perform.
2. The loudspeaker should be placed as close as possible to the listener's ear.
The microphone should be as close as possible to the speaker's mouth, and as far as possible from the loudspeaker as circumstances allow.
3. Loudspeaker/public area (from the ground): side 1,50-1,60 m, overhead max.2,10 m
Microphone/public side (from the ground): 1,30 - 1,50 m,
minimum distance between microphone and loudspeaker: 0,5 m
4. Speaking distance from the microphone:
Service area: 10 - 20 cm
Public area:
 - omnidirectional microphone: max. 50 cm
 - directional microphone: max. 30 cm



Key	Function	LED signal	Condition Intercom system
①	operating status	on off flashing	switched on switched off PTT mode
🔊+	Boost	on off	open listening is activated open listening is deactivated
+	Volume	on, brightness will be increased flashing	Increase volume maximum volume
-	Volume	on, brightness will be reduced flashing	reduce volume minimum volume
🔌	Open Drain output	on off	switching output is connected to GND switching output is open
2	Setup mode	flashing	setup mode is switched on

Adjust the volume:

- Use the + and - buttons to set the maximum volume for optimal sound quality at the service area.
- While pressing button ①, use the + and - buttons to set maximum volume for optimal sound quality at the Public area.

PTT operating mode:

- The service-microphone will only be switched on when button ① is pressed.
- To switch off the intercom, press button ① while holding button 🔊+.

Switch on PTT operating mode:

- Switch off the intercom.
- Keep the button ① pressed until the LED above the button flashes.

Switch off PTT operating mode:

- Switch off the intercom.
- Keep the button ① pressed until the LED above the button lights up.

Boost mode:

- Open listening is switched on, keep button 🔊+ pressed to speak, open listening will be switched off, loudspeaking will be switched on.

Switch on Boost mode:

- Switch off the intercom.
- Keep the button ① pressed until LED above the button 🔊+ lights up.

Switch off Boost mode:

- Switch off the intercom.
- Keep the button ① pressed until LED above the button 🔊+ turns off.

Headset operation

Switch on temporary headset operation:

- After switching on the intercom, the microphone-loudspeaker unit is always active, regardless of whether the headset is plugged in or not.
- Switching to headset mode is done by plugging in or plugging out and back in again.

Switch on permanent headset operation:

- Turn on the intercom system
- Press and hold the ① button to plug in the headset.
- Release the ① button and permanent headset mode is activated.

Switch off permanent headset operation:

- Switch off the intercom and unplug the headset.

Operational Setup/Service

Depending on the local acoustic conditions, it may be necessary to change the volume setting range to avoid poor sound quality and feedback.

The following settings set the maximum volume for the Service and Public area:

- Press the ① button to switch the intercom system off, all LEDs will turn off.
- Press the key sequence 4 🔌 3 4 2, the LED above the button 2 flashes.
- Press the ① button, the LED above the button lights up.
- Use the + and - buttons to set the maximum volume for an optimal sound quality at the Service area.
- Press the ① button, the LED above the button turns off.
- Press the 🔊+ button, the LED above the button lights up.
- Use the + and - buttons to set the maximum volume for optimal sound quality at the Public area.
- Press the + and - buttons to the same time until LEDs above the buttons flash briefly once to save the new values.
- Press the ① and 🔊+ buttons to the same time until LEDs above the buttons lights up | flashes | lights up, to **reset to factory settings**.
- Press the 2 button to exit the settings, all LEDs will turn off.

Trouble shooting:

In case of interference, intercom components should be relocated to increase the distance from sources of strong electromagnetic radiation.