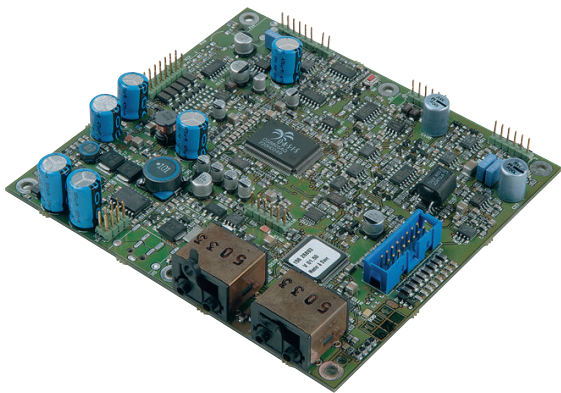**BOSCH**
Invented for life

# LBB 4433/00 Call Station Kit



- ▸ **Redundant network connection**
- ▸ **Power 'ON' outputs**
- ▸ **Status/fault outputs**
- ▸ **Output for a monitoring loudspeaker**
- ▸ **Priority indication of busy target zones**
- ▸ **Microphone supervision**

The call station kit is used to make custom-made call stations, with the same functionality as the LBB 4430/00 Call Station Basic. The call station contains a built-in limiter and speech filter for improved intelligibility. An external power supply can be connected to the call station kit. Two supervised control inputs provide power supply status information.

The LBB 4433/00 can be extended with up to 16 keypads (LBB 4432/00 or LBB 4434/00), each with eight programmable keys. Extension with a numeric keypad (PRS-CSNKP) is also possible.

## Functions

The call station kit has a limiter and a speech filter. This improves intelligibility and prevents clipping of the audio. A potentiometer for volume control of the monitoring speaker and the headset can be connected. When it plays a chime or a pre-recorded message, the call station activates its speaker. The call station has its own DSP, and converts between analog and digital audio. The audio processing includes sensitivity adjustment, limiting, and parametric equalization.

Up to 16 call station keypads can connect to the station via a serial communication link. The call station provides the power for the keypads. Up to 224 priorities can be assigned to the call station. All configuration can be done via the Praesideo network controller.

The call station kit is fully supervised and supports fail-safe operation. Even if the Praesideo network controller fails, the call station is still able to put through emergency calls.

**Controls and indicators**
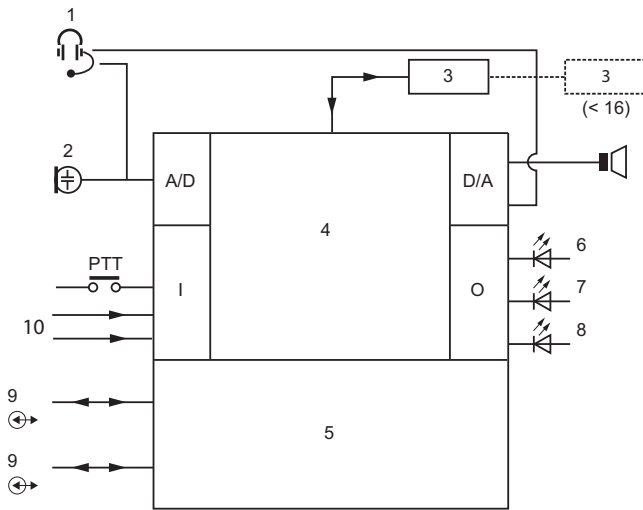
These must be supplied by the installer.

**Interconnections**

- Two network connectors (system bus)
- Backup supply input and 2 control inputs
- Serial data and power supply interface for call station keypads
- Microphone
- Loudspeaker
- Headset
- Volume control for loudspeaker/headset
- Control input (for PTT)
- Five control outputs (for status LEDs)

## Certifications and Approvals

| Region | Certification | |
|---|---|---|
| Europe | CE | |
| | TUEV-SUED | TUV Certificate IEC60849 |
| | GL | GL-SOLAS |
| Safety | acc. to IEC 60065 / EN 60065 | |
| Immunity | acc. to EN 55103-2 | |
| Emissions | acc. to EN 55103-1 / FCC-47 part 15B | |
| Emergency | acc. to EN 60849 / EN 54-16 / ISO 7240-16 | |
| Maritime | acc. to IEC 60945 | |

## Installation/Configuration Notes



| | |
|---|---|
| 1 | Headset |
| 2 | Microphone |
| 3 | Keypad(s) |
| 4 | Network processor and DSP |
| 5 | Network redundancy switching |
| 6 | Power/error |
| 7 | Call station status |
| 8 | Network status |
| 9 | Network connections |
| 10 | Control inputs |

## Parts Included

| Quantity | Component |
|---|---|
| 1 | LBB 4433/00 Call Station Kit |
| 1 | Set of connectors |

## Technical Specifications

**Electrical**

| | |
|---|---|
| Power consumption | 6.2 W (DC) excl. indicators and keypads |
| **Mic input** | 1 x |
| Sensitivity | -57 to -42 dBV |
| S/N | >60 dB at -48 dBV |
| Frequency response | 340 Hz to 14 kHz (-3 dB) |
| **Loudspeaker output** | 1 x |
| S/N | 80 dB ±3 dB at max. |
| Impedance | 8 to 32 ohm |
| Power | 100 mW typ., 300 mW max. |
| **Headset** | 1 x |
| Impedance | 0.5 to 5 kohm |
| Input sensitivity | -57 to -42 dBV/Pa (±3 dB) |
| Earphone impedance | >16 ohm |
| **Status outputs** | 5 x open collector / drain |
| Max. current (internal) | 10 mA per pin; 30 mA total |
| Max. voltage | 56 V per pin |
| Max sink current | 100 mA per output pin |
| **Control inputs** | 2 x closing contact (with supervision) |

**Mechanical**

| | |
|---|---|
| Dimensions (H x W x D) | 20 x 130 x 118 mm (0.8 x 5.1 x 4.6 in) |
| Weight | 120 g (0.26 lb) |
| Mounting | PCB with 6 mounting holes |

**Environmental**

| | |
|---|---|
| Operating temperature | -5 ºC to +55 ºC (+23 ºF to +131 ºF) |
| Storage temperature | -40 ºC to +70 ºC (-40 ºF to +158 ºF) |
| Humidity | 15% to 90% |
| Air pressure | 600 to 1100 hPa |

## Ordering Information

| | |
|---|---|
| **LBB 4433/00 Call Station Kit**<br>used to make custom-made call stations | **LBB4433/00** |
| **Accessories** | |
| **LBB 4432/00 Call Station Keypad**<br>has eight programmable buttons, each with a two-color status LED. | **LBB4432/00** |
| **LBB 4434/00 Call Station Keypad Kit**<br>used in combination with a call station kit or call station basic to make manual or pre-recorded announcements to any assigned zones, or to execute pre-defined actions. | **LBB4434/00** |
| **PRS-CSNKP Numeric Keypad**<br>can be used for user access, zone and zone group selection. LCD for user feedback. | **PRS-CSNKP** |