The PRS-CSRM is a module with the same functionality as the remote call station, PRS-CSR, but without its housing and other components. It is a building block to make custom call stations or panels. It connects via a CAT-5 cable, one-to-one, to the call station interface, PRS-CSI, which is part of the Praesideo optical network. The CAT-5 cable, carrying digital audio and control data, can be as long as 1 km. The CAT-5 cable does not contribute to the Praesideo optical network length. This considerably increases the overall possible length of the network.

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

Functions

The call station module has a connection for a supervised microphone. A limiter and a speech filter improve intelligibility and prevent clipping of the audio. It has a volume control for the monitoring speaker and the headset. When it plays a chime or a pre-recorded message, this can be monitored via a connected loudspeaker or headphone. When a headset is connected, it replaces the microphone and speaker. The call station has its own DSP for audio processing functions, including sensitivity adjustment, limiting, and parametric equalization.

The module gets its power from the interface unit via the CAT-5 cable, but is also equipped with a local power supply connection for extreme cases with a very long cable and many keypads.

Call station keypads can connect to the module via a serial communication link. The module provides the power for the keypads.

The remote call station 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

- External power supply input and 2 control inputs
- Serial data and power supply interface for call station keypads
- Microphone
- Loudspeaker
- Buzzer
- Headset
- Volume control for loudspeaker/headset
- Control input (for Press-to-Talk button)
- Five control outputs (for status LEDs)
Certifications and approvals

<table>
<thead>
<tr>
<th></th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety</td>
<td>acc. to IEC 60065 / EN 60065</td>
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<tr>
<td>Immunity</td>
<td>acc. to EN 55103-2</td>
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<tr>
<td>Emissions</td>
<td>acc. to EN 55103-1 / FCC-47 part 15B</td>
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<tr>
<td>Emergency</td>
<td>acc. to EN 60849, EN54-16 and ISO7240-16</td>
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<tr>
<td>Maritime</td>
<td>acc. to IEC 60945 (except salt mist test)</td>
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</table>

Region | Certification
--- | ---
Europe | CE, COC
Europe | CE, COC
Europe | CE

Installation/configuration notes

1. Headset
2. Microphone
3. Push-To-Talk switch
4. Control inputs
5. Network connection
6. Network processor and DSP
7. Network redundancy switching
8. Keypad(s)
9. Loudspeaker output
10. Volume control
11. Power status
12. Fault status
13. Call status
14. Emergency status
15. System fault status
16. Buzzer

Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
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<tbody>
<tr>
<td>1</td>
<td>PRS-CSRM Call Station Remote Module</td>
</tr>
<tr>
<td>1</td>
<td>Set of connectors</td>
</tr>
</tbody>
</table>

Technical specifications

### Electrical
- **Power consumption**: 4 W at 48 V without keypads
- **External power supply**: 18 to 56 VDC
- **Microphone**
  - **Sensitivity**: -63 to -48 dBV
  - **SNR**: >60 dB at -55 dBV
  - **Frequency response**: 340 Hz to 14 kHz (-3 dB)
- **Loudspeaker output**
  - **S/N**: 80 dB ±3 dB at max.
  - **Impedance**: 8 to 32 ohm
  - **Power**: 100 mW typ., 300 mW max.
- **Headset**
  - **Input sensitivity**: -52 to -37 dBV
  - **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
- **Operation**: Closing contact (with supervision)

### Mechanical
- **Dimensions (H x W x D)**: 43 x 183 x 164 mm (1.69 x 7.20 x 6.46 in)
- **Weight**: 0.8 kg (1.76 lb)
- **Mounting**: Stackable metal enclosure

### Environmental
- **Operating temperature**: -5 ºC to +55 ºC (+23 ºF to +131 ºF)
- **Storage temperature**: -20 ºC to +70 ºC (-4 ºF to +158 ºF)
- **Humidity**: 15% to 90%
- **Air pressure**: 600 to 1100 hPa
Ordering information

**Praesideo Call Station Remote Module**
Module for custom remote call station, connections for microphone, push-to-talk button, monitoring loudspeaker, to be connected to a PRS-CSI via a CAT-5 cable.
Order number **PRS-CSRM**

**Accessories**

**PRS-CSI Call Station Interface**
Compact unit with mounting clamp, interface between Praesideo network and a remote CAT-5 connected call station up to 1000 m away, powered from Praesideo network.
Order number **PRS-CSI**

**Praesideo Call Station Keypad Module**
Module to extend a custom call station with 8 programmable buttons and status indicators, up to 16 keypad kits can be connected to a call station.
Order number **PRS-CSKPM**

**LBB 4432/00 Call Station Keypad**
Call station keypad with 8 programmable buttons and status indicators, up to 16 keypads can be connected to a call station.
Order number **LBB4432/00**

**PRS-CSNKP Numeric Keypad**
Call station numeric keypad and LCD for controlled user access and zone selection in large systems, can be combined with call station keypads.
Order number **PRS-CSNKP**

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