The PRS-16MCI is part of the Praesideo network and acts as an interface to the Praesideo basic amplifiers that do not provide network connectivity. The unit is intended for public address and emergency sound systems. The multichannel interface provides 16 configurable output channels (14 main outputs and two spare outputs). It provides the audio signals to the basic amplifiers and has full control over the amplifiers. It supervises itself and the connected basic amplifiers, and reports fault events to the Praesideo network controller.

The unit should be mounted in a 19"-rack with the included mounting brackets.

**Functions**

This unit is the interface between the Praesideo network and the Praesideo basic amplifiers. It can get its power from the amplifiers it is connected to, or from the network. It has 16 audio channels for up to 14 main amplifiers (zones) and two spare amplifiers. These can be assigned from a non-mixing matrix of 28 Praesideo channels. There are connections for 32 control inputs and 16 control outputs.

The interface provides supervision for the unit itself, as well as all connected basic amplifiers. The interface monitors the functions of the amplifiers, and can activate a spare amplifier to replace one that reports a fault. It has loop-through in and outputs, supporting failsafe mode, which pass emergency calls through, even if the unit itself fails. A controller for multiple-line and loudspeaker supervision is a standard component. The interface can be configured for redundant group A/B switching, or for class-A loop wiring of the connected basic amplifiers. All configuration is done with software over the network.

**Controls and indicators**

- 16 two-color LEDs for amplifier channel status
- Two-color LED for network status

**Interconnection**

- Two system network connectors
- 32 RJ45 jacks for basic amplifiers
- Female XLR-3 connector for failsafe audio loop-through input
- Male XLR-3 connector for failsafe audio loop-through and supervision
- 32 control inputs on removable Euro-style screw terminals
- 16 control outputs on removable Euro-style screw terminals
## Certifications and approvals

<table>
<thead>
<tr>
<th>Category</th>
<th>Certification</th>
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<tr>
<td>Safety</td>
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<td>Immunity</td>
<td>acc. to EN 55103-2 / EN 50130-4 / EN 50121-4</td>
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<td>Emissions</td>
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### Region Certification

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## Parts included

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<tr>
<td>1</td>
<td>PRS-16MCI Multichannel Interface</td>
</tr>
<tr>
<td>1</td>
<td>Set of mounting brackets for 19&quot; rack</td>
</tr>
<tr>
<td>1</td>
<td>Set of connectors</td>
</tr>
</tbody>
</table>

## Technical specifications

### Electrical

- **Power consumption**: 12 W (DC)
- **Performance**
  - Frequency response: 20 Hz to 20 kHz (-3 dB)
  - Total harmonic distortion: <0.1% (1 kHz)
  - Cross talk: <-80 dB (1 kHz)
  - S/N: >85 dB (without pilot tone)
- **Line input**: 1 x
- **Line output**: 1 x (XLR bypass)

### Mechanical

- **Dimensions (H x W x D)**: 88 x 483 x 400 mm (3.5 x 19 x 15.7 in)
  - in front of brackets: 40 mm (1.6 in)
  - behind brackets: 360 mm (14.2 in)
- **Weight**: 7 kg (15.4 lb)
- **Mounting**: 19" rack
- **Color**: Charcoal with silver

### 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

## Control outputs

- **Number**: 16 x
- **Connectors**: Removable screw terminals
- **Operation**: Change over contact (SPDT) voltage free relay
- **Rating**: 24 V, 1 A

### Ordering information

**PRS-16MCI Multichannel Interface**

Interface to Praesideo network, provides 16 audio outputs with control and supervision to non-network connected basic amplifiers, powered from the Praesideo network or the connected amplifiers, rack unit 2 RU.

Order number **PRS-16MCI**