



PRS-16MCI Multichannel Interface



- ▶ **Interface to Praesideo basic amplifiers**
- ▶ **Up to 16 audio channels**
- ▶ **Redundant fiber optic network connection**
- ▶ **Control input and output connections**
- ▶ **Complete supervision**
- ▶ **IEC 60849 compliant**

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 (IEC 60849 compliant).

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

Region	Certification	
Europe	CE	Traction
	TUEV-SUED	TUV
	GL	GL
Safety	acc. to IEC 60065-98	
Immunity	acc. to EN 55103-2 / EN 50130-4	
Emissions	acc. to EN 55103-1 / FCC-47 part 15B	
EVAC (TÜV certified)	acc. to IEC 60849 / BS 5839-8	

Parts Included

Quantity	Component
1	PRS-16MCI Multichannel Interface
1	Set of mounting brackets for 19" rack
1	Set of connectors

Technical Specifications

Electrical

Power consumption	12 W (DC)
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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

Connector	XLR bypass
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Line output

Connector	XLR loop-through
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Line output

Connectors	RJ45 jack (in pairs)
	0 dBV (symmetrical)

Control inputs

Connectors	Removable screw terminals
Operation	Closing contact (with supervision)

Control outputs

Connectors	Removable screw terminals
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Operation	Change over contact (SPDT) voltage free relay
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Rating	24 V, 1 A
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Mechanical

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

Operating temperature	-5 °C to +55 °C (+23 °F to +131 °F)
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Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
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Humidity	15% to 90%
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Air pressure	600 to 1100 hPa
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Ordering Information

PRS-16MCI Multichannel Interface
an interface to the Praesideo basic amplifiers that do not provide network connectivity

PRS-16MCI

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