

# PRS-16MCI Multichannel Interface

www.boschsecurity.com



**BOSCH**  
Invented for life



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

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

Safety	acc. to IEC 60065 / EN 60065
Immunity	acc. to EN 55103-2 / EN 50130-4 / EN 50121-4
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

Region	Certification
Europe	CE
	CPD
Poland	CNBOP

## 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)
<b>Performance</b>	
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)
<b>Line input</b>	
Connector	XLR bypass
<b>Line output</b>	
Connector	XLR loop-through
<b>Line output</b>	
Connectors	RJ45 jack (in pairs)
	0 dBV (symmetrical)
<b>Control inputs</b>	
Connectors	Removable screw terminals
Operation	Closing contact (with supervision)
<b>Control outputs</b>	
Connectors	Removable screw terminals

Operation	Change over contact (SPDT) voltage free relay
Rating	24 V, 1 A

### Mechanical

Dimensions (H x W x D) rack with brackets	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 °C to +55 °C (+23 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Humidity	15% to 90%
Air pressure	600 to 1100 hPa

## Ordering information

### PRS-16MCI Multichannel Interface

a network interface to the Praesideo basic amplifiers.  
Order number **PRS-16MCI**

**Represented by:**

**Americas:**

Bosch Security Systems, Inc.  
12000 Portland Avenue South  
Burnsville MN 55337, USA  
Phone: +1-800-392-3497  
Fax: +1-800-955-6831  
audiosupport@us.bosch.com  
www.boschsecurity.com

**Europe, Middle East, Africa:**

Bosch Security Systems B.V.  
P.O. Box 80002  
5617 BA Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

**Asia-Pacific:**

Robert Bosch (SEA) Pte Ltd, Security  
Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

**China:**

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

**America Latina:**

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
al.securitysystems@bosch.com  
www.boschsecurity.com