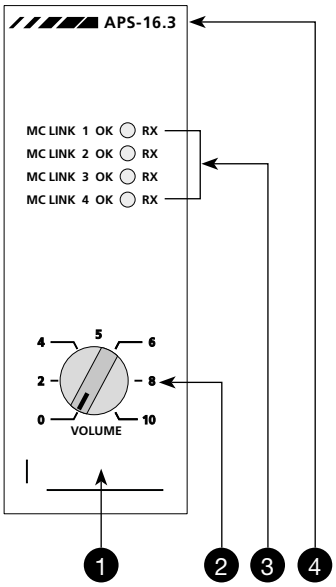
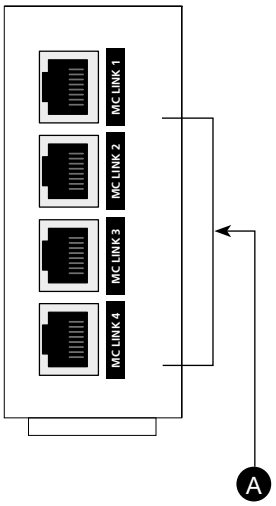
APS-16.3

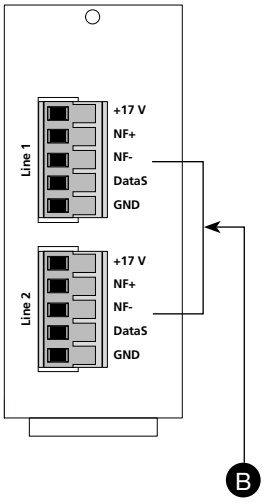
Module for serial microphone consoles with 4 monitored MC LINK connections



RWS-16.3-D4



RWS-16.3-D2



Front view (FRS)

1 Sound source label
2 Volume control
3 Status display / Data reception indicator
4 Model code

Rear view (RWS)

A Socket RJ45
B Connector block

Description

Product versions

APS-16.3-D4	with RWS-16.3-D4	4 MC LINK
APS-16.3-D2	with RWS-16.3-D2	2 Connector block

Designation and function

Module for the connection between loudspeaker system and several microphone consoles according to the label; EV consoles are monitored corresponding to the standard EN 54-16 for Voice Alarm Control and Indicating Equipment (VACIE)

Intended use

- Fire safety
- Professional audio

Use of the module

As independent input (for talking from the console)

Sound source

(EV-) serial microphone consoles

Adjustments on the module

None

Description

Function of the module
According to the programming of the processor module APS-990

Volume control
Do affect the volume (talking) in all active loudspeakers

Security
The operating knob can be removed (with pliers) – operation only then possible with the aid of a screwdriver; an additional cover makes the operation impossible (prevents operation errors)

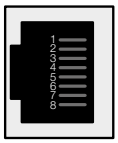
Monitoring
All four MC LINK connections are nonreactive. The power supply and the data line are monitored for each MC LINK. In the event of errors, these are nonreactive. The audio connection is also free of feedback.
An aggregated error message is transmitted to APS-990 for each MC LINK

Warning if EV consoles are in use
In normal mode, the changing of the position of the control or the unplugging of a EV console will give an automatic error message

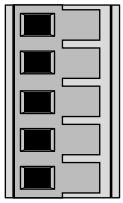
Rear panel (RWS)
- RWS-16.3-D2
- RWS-16.3-D4

Technical specifications

Connection diagram for the socket RJ45 (A)
1 LF (low frequency) input balanced +
2 LF (low frequency) input balanced –
3 Serial Data
4 Supply +17 VDC for microphone consoles (max. 400 mA)
5 Supply +17 VDC for microphone consoles (max. 400 mA)
6 Ground
7 Ground
8 Ground



Connection diagram for the connector block (B)
1 Supply +17 VDC for microphone consoles (max. 400 mA)
2 LF (low frequency) input balanced +
3 LF (low frequency) input balanced –
4 Serial Data
5 Ground



Data

Tasks of the module
- LF connection between the microphone consoles and the input buses (M1–M4) for talking
- Data connection between the microphone consoles and the processor module APS-990 (Data-S)

General information

Connection	Balanced audio
Balancing	Electronical
Input / output impedance	600 Ω
Operating temperature	-5 °C to 40 °C
Humidity	15 % to 90 %, non condensing

Data transfer between the module and the APS-990
Via the I²C bus

Data transfer between microphone consoles and APS-990
Via the Data-S bus

Monitoring and error message of EV consoles
By the central unit APS-177

Possible microphone consoles
- APS-3XX.1 / APS-3XX.2 (Standard versions)
- APS-3XX.1-EV / APS-3XX.2-EV (EV Versions)
- GM-FWS-3033-XX

Priorities of the consoles and LF activation
According to the programming of the APS-990

Use of the module
Independent

Connection cable
GZ-932-C, GZ-932-EV

Operating instruction

The status LEDs (3) indicate the status of the MC LINK connections to the microphone consoles. During a data transfer, the corresponding LED flashes. The level of the microphone audio bus can be adjusted with the volume control (2).

Removal of the module from a unit
a) CAUTION: the amplifier system must be disconnected from mains and battery supply!
b) Remove the covering strips at the cabinet
c) Unscrew the Torx screws
d) Pulling out the module forwards

Important
The use must be in accordance with the programming!
The sockets RJ45 (MC LINK) are not network compatible.