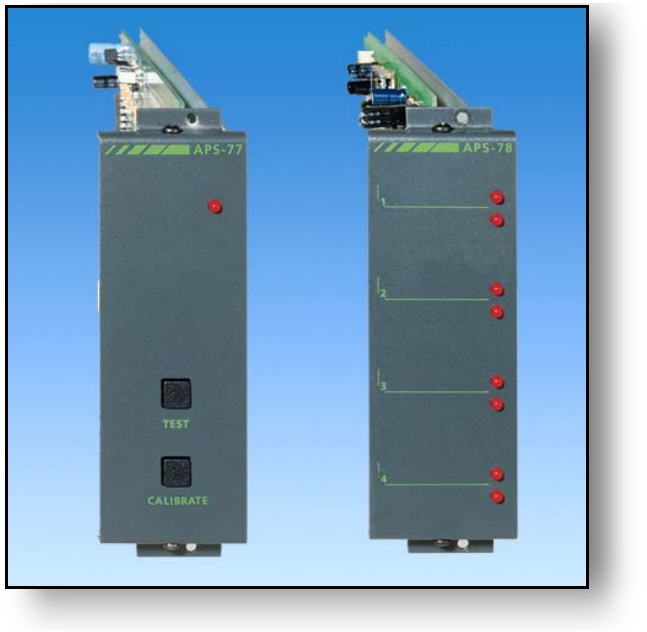
AutroVoice BR-200 System components

Digital monitoring modules APS-77 / APS-78 / APS-79

4-channel technology and I^2C BUS-logic.

- **Digital monitoring modules for amplifier and 100V speaker lines.**
- **100% reliability with alarm messages and evacuation.**
- **Continuous, microprocessor-controlled monitoring of control panel and its amplifier, including automatic reconnection.**
- **Control output for automatic onward transmission of faults, e.g. to fire alarm control panel.**



APS-77 - Basic module with control and universal logic

- With generator, universal logic and control for the APS-78 and APS-79
- With 3,5 mm DATA jack socket on the front for PC communication. All data is stored in an EEProm.
- 230V and 24V supply with automatic reconnection.

APS-78 - Module for automatic monitoring of speaker lines

- For automatic monitoring of up to 4 speaker lines.
- LED indicator per speaker line on the front, for indicating short circuits, breaks, earth faults, etc.
- Modular expansion in 4, 8, 12 etc., groups, always with the same basic APS-77 module.

APS-79 - Module for automatic monitoring of amplifiers

- For automatic monitoring of up to 2 amplifiers.
- Modular expansion in 4, 6, 8 etc., groups, always with the same basic APS-77 module.
- Automatic reconnection to back-up amplifier (in case of defective amplifier), controlled via APS-77 (option).

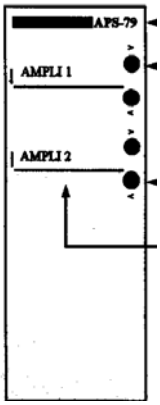
Technical specifications

APS-77	
LED-indicator red (TEST)	Lights up during calibration and manual metering
Functions	Inaudible pilot tone frequency generator, electronic and logic for automatic control of the APS-78 and APS-79 modules; storage of all system-specific data on EEProm
RS232	RS-232 serial interface (jack socket) exclusively for programming the APS-77 basic monitoring module.
Supply	230V and 24V with automatic reconnection
Interval between 2 tests	10 seconds to 60 minutes, programmable
APS-78	
Indicators	8 red LED's (2 for each speaker zone)
Impedance too low (short circuit)	The lower LED is lighting
Impedance too high (break)	The upper LED is lighting
Earth fault	Both the LED's are lighting
Function	Monitoring of up to 4 speaker circuits, controlled via APS-77
APS-79	
Indicators	4 red LED's (2 for each amplifier)
Output signal too low (failure)	The lower LED is lighting
Output signal too high (fault)	The upper LED is lighting
Function	Monitoring of up to 2 amplifiers

Article number	Description
116-BRG-APS77	Basic module with control and universal logic
116-BRG-APS78	Module for automatic monitoring of up to 4 speaker lines
116-BRG-APS79	Module for automatic monitoring of up to 2 amplifiers

APS-79

Front



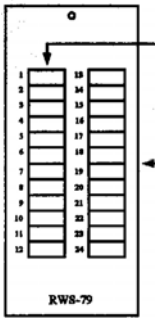
Type designation

Upper LED for amplifier 1

Lower LED for amplifier 2

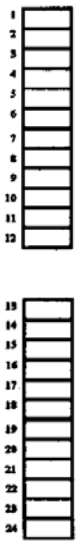
Marking for amplifier 2

Rear (RWS)



Plug-in terminal board A for input/outputs

Plug-in terminal board B for input/outputs

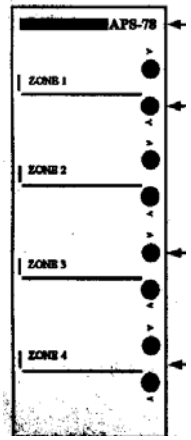


Terminal board connections:

1 = 100V	Output 1 to the modules/speakers
2 = 70V	Ditto
3 = 50V	Ditto
4 = 0V	Ditto
5 = 100V	Input for amplifier 1
6 = 70V	Ditto
7 = 50V	Ditto
8 = 0V	Ditto
9 = 100V	Input for back-up amplifiers (extra)
10= 70V	Ditto
11 = 50V	Ditto
12 = 0V	Ditto
13 = 100V	Output 2 to the modules/speakers
14 = 70V	Ditto
15 = 50V	Ditto
16 = 0V	Ditto
17 = 100V	Input for amplifier 2
18 = 70V	Ditto
19 = 50V	Ditto
20 = 0V	Ditto
21 = 100V	Input for back-up amplifiers (extra)
22 = 70V	Ditto
23 = 50V	Ditto
24 = 0V	Ditto

APS-78

Front



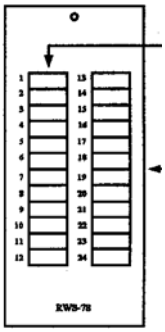
Type designation

Lower LED for speaker line 1

Upper LED for speaker line 3

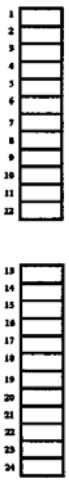
Marking for speaker line 4

Rear (RWS)



Plug-in terminal board A for input/outputs

Plug-in terminal board B for input/outputs



Terminal board connections:

1 = 0/100V (ext.)	Output speaker line 1
2 = 100V	Output speaker line 1
3 = 0V	Output speaker line 1
4 = 0/100V (ext.)	Input speaker line 2
5 = 100V	Input speaker line 2
6 = 0V	Input speaker line 2
7 = 0/100V (ext.)	Output speaker line 2
8 = 100V	Output speaker line 2
9 = 0V	Output speaker line 2
10= 0/100V (ext.)	Input line 2 from module/amplifier
11 = 100V	Input line 2 from module/amplifier
12 = 0V	Input line 2 from module/amplifier
13 = 0/100V (ext.)	Output speaker line 3
14 = 100V	Output speaker line 3
15 = 0V	Output speaker line 3
16 = 0/100V (ext.)	Input line 3 from module/amplifier
17 = 100V (ext.)	Input line 3 from module/amplifier
18 = 0V	Input line 3 from module/amplifier
19 = 0/100V (ext.)	Output speaker line 4
20 = 100V	Output speaker line 4
21 = 0V	Output speaker line 4
22 = 0/100V (ext.)	Input line 4 from module/amplifier
23 = 100V	Input line 4 from module/amplifier
24 = 0V	Input line 4 from module/amplifier

AutroVoice BR-200 is developed and produced in cooperation with

swiss made gm elektronik ag

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