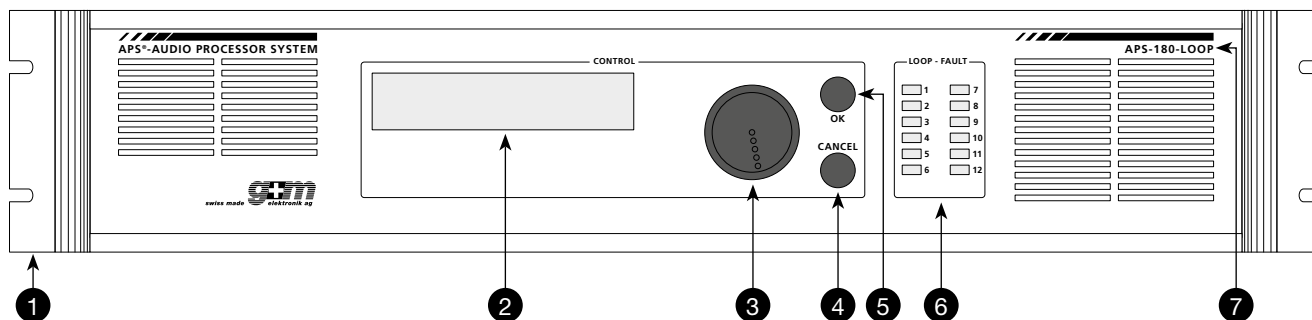


APS-180-LOOP

Interruption free line monitoring



Front view

- | | |
|---|--|
| <p>1 19" adaptor 2U (option MC-42)</p> <p>2 LCD display</p> <p>3 Rotary knob</p> <p>4 Button CANCEL</p> | <p>5 Button OK</p> <p>6 Error display for speakers loops</p> <p>7 Type designation</p> |
|---|--|

Description

Designation and function

Monitoring of loudspeaker loops in case of:

- Short-circuit (with the automatic isolation)
- Interruption (with the automatic isolation)
- Short-to-ground
- Zone switching

Use of the device

As part of an APS system

Manual settings on the device

Device number, Audio switching off in case of failure (during isolation). Pro loop-line: number of insulators, activating, threshold signal carrier, carrier signal level, activation short-to-ground measurement, reaction on short-to-ground, amplifier detection

Automatically displays on the device

Status/Error Loop

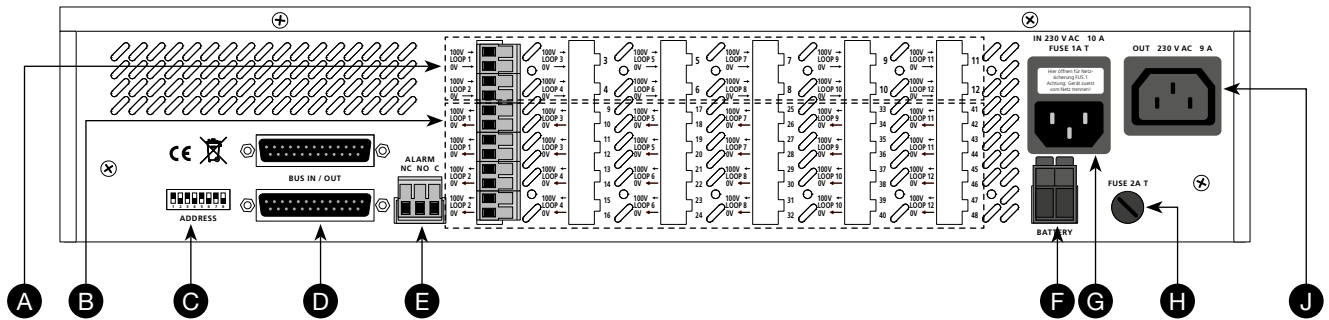
Information

The operation can be done on the device or via APS-APROSYS program.

Caution

Never do interventions in the equipment by yourself

- The unit is suitable for indoor use only. Protect it against humidity and heat.
- Do not operate the unit:
 - If there is visible damage to the unit
 - If a defect might have occurred
 - If malfunctions occur
- For cleaning only use a dry, soft cloth by no means – no liquids!



Rear view

- A Signal audio 100 V for the lines 1–12
- B Signal audio 100 V for the lines 1–12
- C Mini-switch for addressing
- D Socket D-SUB-25 for APS bus ribbon cable
- E Potential free error indication contact

- F Pluggable output terminals for Battery (48 V DC)
- G Input socket for power supply with protection
- H Fuse for battery connector
- J Output socket for power supply 230 V

Technical specifications

Mini switch (C)

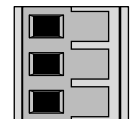
(Important: switch up = address active)

- 1 Address 1
- 2 Address 2
- 3 Address 4
- 4 Address 8
- 5 Address 16
- 6 Address 32
- 7 Address 64
- 8 No function



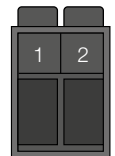
Connection diagram of connector block (E)

- 1 Normally closed contact
- 2 Normally open contact
- 3 Change-over contact



Connection diagram of connector block (F)

- 1 48 VDC
- 2 Ground DC



Installation cable for Loops

2 × 1.5 mm², max. 100 nF/km

Forward and reverse line may not be in the same cable

Important

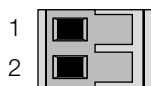
The APS address must match the programming! For the complete delivered systems, all the switches are set correctly and may not be changed! Even one incorrectly set switch can make the system inoperable! The same thing can happen when a housing is removed from the system without replacement.

Socket D-SUB-25 E (D) (BUS IN / OUT)

For the connection of the bus with other APS housings

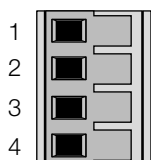
Connection diagram for connector block (A)

- 1 100 V from amplifier or output module
- 2 0 V from amplifier or output module



Connection diagram for connector blocks (B)

- 1 100 V to Loop line
- 2 0 V to Loop line
- 3 100 V from Loop line
- 4 0 V from Loop line



General informations

Max. N° of Loop lines per unit	12
Max. power per Loop	250 W
Max. N° of isolator units per Loop	35
Max. N° of isolator units per device	420
Max. distance to the last isolator unit	500 m
Max. length of the forward and reverse line	100 m
Max. distance between two isolator units	50 m
Max. N° of speakers between two isolator units	5
Max. N° of devices per APS system	7
Fuse for power supply	1 A delayed
Fuse for battery operation	2 A delayed
Weight	7.0 kg

Switching and isolator units:

- GM-7179-BOX Isolator unit in case
- GM-7179-IS Isolator unit for installation

Important

Make sure to install an isolator in the first and the last loudspeaker of a loop