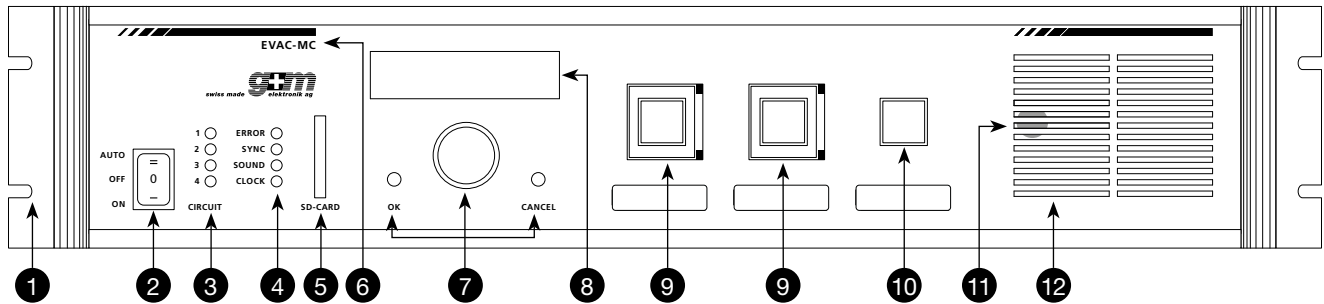


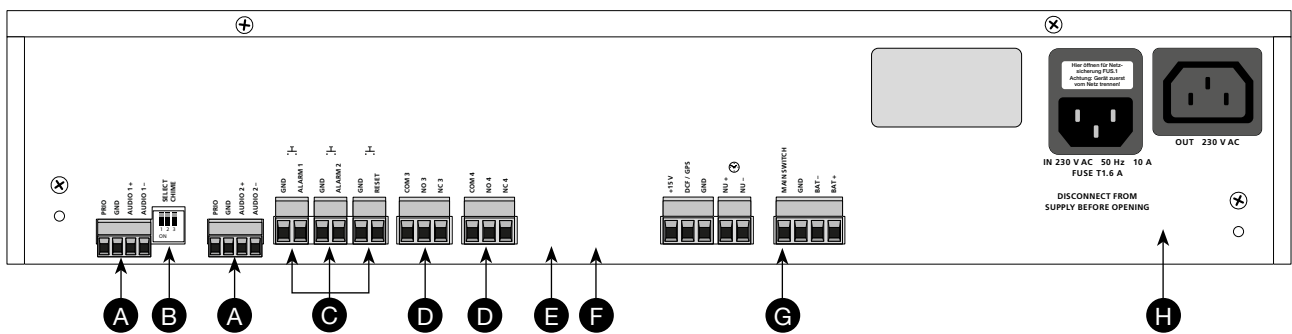
EVAC-MC

Universal master clock with emergency trip unit / Emergency power supply and slave clock connection



Front view

- | | |
|---------------------------------|---|
| 1 19" Adapter 2U (Option MC-42) | 7 Controls for menu navigation |
| 2 Switch ON/OFF/AUTO | 8 LCD Display for mode indication |
| 3 LED Indicator for circuits | 9 Button with hinged lid for alarms functions |
| 4 LED Status display | 10 Button RESET |
| 5 SD Card slot | 11 Buzzer in case of power failure |
| 6 Model code | 12 Ventilation grille |



Rear view

- | | |
|--|--|
| A Pluggable output connector block for priority connective and LF signal | E Pluggable input connector for DCF/GPS |
| B DIP switch for melody selection | F Pluggable output connector for slave clocks |
| C Pluggable input connector for external switch contact | G Pluggable connector for main switch and emergency power supply |
| D Pluggable output connector for relay output | H Mains power input with integrated fuse |

Description

Designation and function

Universal master clock with emergency trip unit / emergency power supply and slave clock connection. For autonomous operation or ideally combined with the LC amplifier family.

Use

Used in school buildings and office buildings etc.

Wherever an information signal is to sound at a clearly stipulated time. In addition, up to 120 slave clocks can be synchronised and controlled, accurate to the millisecond, and, in an emergency, a warning signal can be transmitted to all the connected speaker systems via this unit. This also during a power failure thanks to the optional emergency power supply.

Adjustments at the casing

Via DIP switch can be select one of the 8 pre-programmed sound files which is played the exact second via the master clock at the selected output.

CAUTION!

The unit is supplied with hazardous mains voltage (230 V~). Leave servicing to skilled personnel only. Inexpert handling may cause an electric shock hazard. Any connections must only be made or changed with the unit switched off.

- The unit is suitable for indoor use only. Protect it against humidity and heat
- Do not cover the ventilation grilles of the casing (Front and rear) with any objects
- Do not insert anything through the ventilation grilles!
- Do not operate the unit or immediately disconnect the plug from the mains socket
 - If there is visible damage at the unit or to the mains cable
 - If a defect might have occurred
 - If malfunctions occur
- Never pull at the cable to disconnect the mains plug!
- For cleaning only use a dry, soft cloth, by no means liquids!

Technical data

Connection diagram for priority connective and LF signal (A)

Audio 1, Audio 2

- 1) Priority circuit
- 2) Ground
- 3) Output Audio +
- 4) Output Audio -



DIP switch for melody selection (B) of Circuit 1 (Sound file 00-07 = BCD code 0-7)

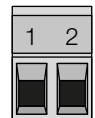
- 1) Address 1
- 2) Address 2
- 3) Address 4



Connection diagram for external switch contact (C)

Alarm button 1, Alarm button 2, RESET button

- 1 Ground
- 2 Switch contact



Connection diagram for relay output (D)

Circuit 3, Circuit 4

- 1 Common contact (C)
- 2 Normally open contact (NO)
- 3 Normally closed contact (NC)



Connection diagram for DCF/GPS (E)

- 1 15 V
- 2 DCF/GPS
- 3 Ground

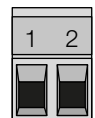


Connection DCF: 2 and 3

Connection GPS: 1, 2 and 3

Connection diagram for slave clocks (F)

- 1 NU+
- 2 NU-



Connection diagram for main switch and emergency power supply (G)

- 1 Main switch (Open Collector)
- 2 Ground
- 3 Ground DC
- 4 55 V DC



Technical specifications

Switch ON/OFF/AUTO

AUTO	Time-controlled master switch for ext. amplifier
OFF	OFF, accumulator OFF (deep discharge protection)
ON	ON

LED Status display

ERROR	<input type="radio"/> Error
SYNC	<input type="radio"/> DCF/GPS Synchronisation
SOUND	<input type="radio"/> Sound File played
CLOCK	<input type="radio"/> Impulse slave clock line

Soundfiles (mp3)

A total of 11 alarm signals can be saved to the SD card.

The names of the sound files must be «SOUND00.mp3» to «SOUND10.mp3»

00–07	Selection via DIP switch for Audio 1
08	Signal from Circuit 2
09	Signal alarm button 1
10	Signal alarm button 2

IMPORTANT:

mp3 functions only with the right transcoding.
It is absolutely essential that all mp3 files are coded with 64 kbps/44.1 kHz /mono.s

Internal priority hierarchy

Priority 1: button 1 (alarm 1) and button 2 (alarm 2)

Priority 2: circuit 1 and circuit 2

A signal from circuit 1 or 2 is automatically interrupted when an alarm text is triggered.

A signal from a circuit is ignored if the signal is already active and must be taken into account during programming.

General information

Soundfile	64 kbps fix / 44.1 kHz / mono
Accuracy	Quartz 20 ppm/DCF < 1 ppm
Pulse output	1 A (The output features electronic short-circuit protection which switches back on again automatically)
Slave clock mode	
- Minute pulse	Selectable
- Time Code (TC)	Selectable
- Time Code Pol (TCPOL)	Selectable
Power reserve	Pulse memory with fast pulses after power failure
Time memory	10 years (lithium battery)
Signal points	500
Input binary 1/2/3	Floating contacts
Circuits 1–4	
- Circuit 1	Sound 00–07
- Circuit 2	Sound 08
- Circuit 3	Relay Output 3
- Circuit 4	Relay Output 4
Max. loading/Relay output	230 V/6 A
Total relay outputs	2 × 6 A
Connection voltage	230 V, 50 Hz, -5 %/ +10 %
Connected load	40 VA
Emergency power supply	250 W, 55 V DC
Dimensions (W × H × D)	425 × 85 × 320 mm
Weight	3.2 kg
Ambient temperature	-5°C to 40°C
Relative humidity	15% – 90%, non condensing
Housing	Sheet steel
EMC emission	To EN50081-1, immunity to EN50082-2