Swiss Made

Often invisible. But always loud and clear. For over 45 years now, the innovative ideas of g+m elektronik ag have been right at the heart of things. Our electro-acoustic developments set standards on the markets time and time again. Well beyond the boundaries of Europe.

Our brand name stands for Swiss values and for Swiss quality. Lasting and forward-looking. We develop, design and produce trend-setting solutions.

produce trend-setting solutions.

High innovative strength and many years of experience guarantee you long-lasting, high-quality and extremely user-friendly products.

g+m elektronik ag develops and produces in accordance with most recent international standards ISO 9001, EN 54-16, EN 54-17, EN 54-24, NEN 2575 and BS 5839.





Acoustics | Clocks | Evacuation



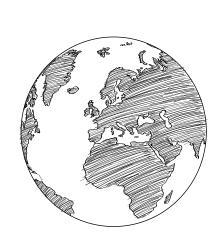
g+m elektronik ag CH-9245 Oberbüren T +41 71 955 90 10 F +41 71 955 90 20 g+m elektronik ag CH-5504 Othmarsingen T +41 62 896 02 08 F +41 62 896 02 68

Swiss Systems B.V. NL-4206 CC Gorinchem T +31 (0)183 513 153 F +31 (0)842 105 651 g+m elektronik ag CH-1607 Palézieux T +41 21 791 63 06 F +41 21 791 63 08

g+m électronique S.A.R.L. F-21202 Beaune Cedex T +33 (0)3 802 50 551 F +33 (0)3 802 50 552



The pre-configured flexible APS voice alarm system (VAS/VACIE)



International Partners: http://www.gm-elektronik.swiss/en/gm-subsidiariesagents

gm-elektronik.swiss



APS-FLEX-16/32

THE FLEXIBLE VOICE ALARM SYSTEM



The APS-FLEX system is a pre-configured unit and is suitable for mid-sized voice alarm systems. All important functions and components are already integrated and are configured so they are ready to operate.

The APS-FLEX system is suitable for all premises and installations in which a PA system is used for emergency announcements and is thus a central part of the security concept. All aspects of Standard EN 54-16 are complied with. The system is monitored comprehensively – from the microphone to the speaker and from the power supply to the amplifier.

In the event of corresponding failures, this is signalled and logged and the system is switched over automatically to the integrated emergency power supply or to the reserve amplifier. Announcement options into up to 16/32 zones with background sound round off the diverse capabilities

APS-FLEX consists of components of the APS®-APROSYS system family and can be extended at any time with the diverse functions of the system family. This thus allows building management systems and subsystems to be networked via LAN and both capacities and zones to be

- 2 x 250 W/3 x 250 W, digital amplifiers
- 1 Backup amplifier 250 W
- Emergency power supply
- Monitored interface to the fire alarm system (FAS)
- Music input
- Interface for 16 digital microphone consoles
- Freely programmable digital microphone console, with monitored voice call point for 16/32 lines and 3 covered alarm buttons
- Freely programmable, monitored alarm memory for 30 alarms
- Error memory from which items can be retrieved with date stamp



THE PRE-CONFIGURED ALL-ROUNDER



provide life-saving instructions in charge current. emergency situations is monitored permanently. A defective microphone Error logging capsule is detected immediately by the

An evacuation or an alarm text to all what occurred and when. zones is tripped via these eight floating inputs, for example by a fire alarm sys- Incorporated backup amplifier tem or by external contacts. The eight Correct functioning of the 3 x 250 Watt The integrated MP3 module is able tely leads to a fault signal.

Integrated emergency power supply

The integrated, maintenance-free 48 V high-capacity rechargeable batteries Speaker line monitoring

ates the correct function of the re-

currence to a non-volatile EEPROM. Eight monitored inputs for tripping So even if a power failure should dividual speaker, thus drastically cutoccur, the system fully logs precisely

inputs are monitored so that a line amplifiers is monitored constantly by to store up to 30 user-defined MP3 short-circuit or discontinuity immedia- measuring the output levels. If an am- files with a total length of 30 minutes unrestricted operation.

tonomous operation of the emergency permanently and without interruption. and loaded onto the central control warning system for 30 minutes under This means that this measurement is and indicating panel. full load. The integrated and intelligent conducted simultaneously and without charger is also monitored and evalu- interrupting the background sound.

measuring the connected impedance. advantage that a defective speaker is also detected in addition to a defecti-The system saves all relevant error ve line. One additional advantage: This messages with date and time of oc- does not require a blocking capacitor which is subject to ageing for each in-

Incorporated MP3 module for audio signals in virtually CD quality

plifier fails, the system switches over in virtually CD quality. The audio files automatically to the fully independent are triggered either from the digital mithird backup amplifier, thus ensuring crophone voice call point or by one of the eight floating contacts. Audio signals such as advance alarm bell, siren or evacuation and alarm texts can be guarantee uninterrupted and fully au- All 16 speaker lines are monitored created extremely easily on the PC



Standard FN 54-16

Why voice alarm?

If a PA system is used to emit alarm or evacuation signals, we refer to it as an electro-acoustic alarm system.

What is the aim of a Voice Alarm System?

Being able to broadcast a clear and intelligible message for emergency measures in order to achieve the following objectives

- People in danger take the alert seriously
- People in danger know exactly what to do
- Avoiding panic and wrong actions and improving the reaction time drastically
- Pre-recorded messages make sure, that always a clear instruction of what to do is broadcasted
- Messages and life-saving instructions can be broadcasted through the Fireman's microphone
- The goal: Saving human life!

Typical applications

Whilst voice alarm systems therefore work well in all buildings, they are particularly beneficial for the following applications:

Shopping

Sports Centres

Company Buildings

Specialities like Tunnels, ...

Catering

- Public Transport
- Schools & Universities

ADC ELEV 16 (0A/D)

Public Buildings

Hospitals & Retirement homes

What is the aim of the Standard Norm EN 54-16

The voice alarm system forms a important part of an evacuation procedure. The standard EN 54-16 sets out requirements for performance and system integrity to ensure 100% reliability and availability of the voice

Specificatitions

	APS-FLEX-16 (8A/B)	APS-FLEX-32 (16A/B)
Power	230 VAC +/-10%, 50/60 Hz	230 VAC +/-10%, 50/60 Hz
Nominal Power	990 VA	990 VA
Nominal current	4.5 A	4.5 A
Idle power	96 VA	96 VA
Standby time witout net	30 h	30 h
Full load operation time with net	30 min	30 min
Battery capacity	48 V/24 Ah	48 V/48 Ah
Output	$16 \times 100 \text{ V}/250 \text{ W max. per linie}$	$32 \times 100 \text{ V}/250 \text{ W max. per linie}$
Total output	2 × 250 W+ 250 W (Backup)	3 × 250 W + 250 W (Backup)
Input FAS	8 × ext. Eingänge (monitored)	8 × ext. Eingänge (monitored)
Input microphone console XLR	600 Ohm sym., 0 dBm/Digital	600 Ohm sym., 0 dBm/Digital
Input music CINCH	47 kOhm asym., -10 dBm	47 kOhm asym., -10 dBm
Dimensions (W × H × D)	425 × 572 × 340 mm (13 HE)	425 × 720 × 340 mm (17 HE)
Weight	67.5 kg	72.5 kg
Ordering information	APS-FLEX-8AB-H	APS-FLEX-16AB-H

gm-elektronik.swiss | adm@gm-elektronik.swiss