

TECHNICAL SPECIFICATIONS

Approvals	Certifications: EN 54-16, EN 54-4 User standards: VDE-833-4, NEN 2575, EN 50849 Conformity: Europe CPR/ CE, UAE Coc, UAE Coc			
Sampling frequency	48 kHz/24 Bit			
Signal delay	Input	Output	Signal delay	
	Analog 0 dBu	Analog 0 dBu	< 0.5 ms	
	Analog 0 dBu	BF-Bus	< 0.5 ms	
	MC LINK	Analog 0 dBu	< 0.5 ms	
	MC LINK	BF-Bus	< 0.5 ms	
	M-Bus	Analog 0 dBu	< 0.5 ms	
	M-Bus	BF-Bus	< 0.5 ms	
Distortion factor	Input	Output	Distortion factor	Frequency response
	Analog 0 dBu	Analog 0 dBu	< 0.1 %	20–20'000 Hz
	Analog 0 dBu	BF-Bus	< 0.1 %	20–20'000 Hz
	MC LINK	Analog 0 dBu	< 0.1 %	20–20'000 Hz
	MC LINK	BF-Bus	< 0.1 %	20–20'000 Hz
	M-Bus	Analog 0 dBu	< 0.1 %	20–20'000 Hz
	M-Bus	BF-Bus	< 0.1 %	20–20'000 Hz
Dynamic range	Input	Output		
	M-Bus to BF-Bus	113 dB typ.		
	M-Bus to analog output 0 dBu	113 dB typ.		
	Analog, Amplification 0 dB	117 dB typ.		
	Analog, Amplification 60 dB	96 dB typ.		
	MC LINK	118 dB typ.		
Power consumption	Power supply	Current Consumption	Power consumption	
	17 VI	20 mA	0.34 W	
	17 VA	340 mA	5.78 W	
	15 V	800 mA	12 W	
Signal-to-noise ratio	129 dBu typ., analogue input, equivalent input noise, input gain = 60 dB 96 dBu, BF out Residual output noise, BF out off 90 dBu, Line out Residual output noise, Line out off			
Power supply	In APS systems via APS bus. Optional power supply for stand alone applications			
Ambient temperature	-5°C to 40°C			
Humidity	15–90 %, non condensing			
Weight	3.1 kg			
Dimensions (W x H x D)	422 x 44 (1U) x 330 mm			



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APS-9000

The controller with a future



APS-9000

THE NEXT GENERATION



The APS-9000 central platform from g+m elektronik ag represents a new dimension in APS technology. The APS-9000 is based on a forward-looking design and architecture.

Featuring a Linux Embedded PC, it is much more than an innovative control unit: Like a mastermind, it networks your proven APS®-APROSYS system modules with new digital applications. This makes your voice alarm and audible system even more powerful and efficient.

APS®-APROSYS is the intelligent system solution from g+m elektronik ag: with its Swiss precision, user-friendliness and forward-looking concept, our APS® technology meets your most demanding requirements for voice alarm control and indicating equipment (VACIE), sound systems for emergency purposes (SSEP) and general public address solutions.

Improved audio quality

The APS-9000 provides even better audio quality and greater ease of use.

Tried-and-tested system modules plus new applications

Thanks to perfect backward compatibility, you can set up your existing APS® system solution with the APS-9000 and expand it further with new applications in the long term.

Compact design with the latest technology

The 19 most commonly used APS modules are digitally imaged in a compact design with only 1U. The APS-9000 is individually programmable and also scalable for complex plant configurations.

Ready for the digital expansion

For processing digital audio and video signals, all DSP functions are already integrated in the inputs and outputs and can be operated via remote control.

Managed ethernet switch for perfect data management

With the Ethernet Switch, the APS-9000 becomes your control centre. The four integrated managed ethernet ports are used to connect the graphical user interfaces, configuration software, remote maintenance, control and indicating equipment, control centres and building automation systems.

The ASP-9000's capabilities

- Integrated APS Engine
- Monitored according to standard EN 54-16
- 4 Channel Audio Player
- 8 programmable buttons/LEDs
- DSP for all analog and digital inputs/outputs
- 2 MC LINK inputs for serial microphone consoles
- 4 analog inputs -60 to 0 dBu
- 2 analog outputs 0 dBu
- 8 digital monitored inputs
- 4 digital potential-free change-over contacts
- APS network functions (optional software package APS-9000-SW-NP1)
- Web server for operating and display units (optional software package)
- Embedded hardware firewall to separate VA and PA functions
- Various interfaces (optional software package) for connection to control centres and building management systems
- Digital AES67 audio matrix (optional software package APS-9000-SW-NP1)

COMPACT, COMPATIBLE, EXPANDABLE

