



# DAM-2525 A

## Digital-Programmable-Matrix-Relay-Unit ( Free share load)



**EN 54 16**

### APPLICATION

- Public Address and Voice Alarm
- Background Music
- Audio Visual

### AREA OF USE

- Health
- Education
- Retail
- Hospitality
- Stadiums
- Transportation
- Theme parks
- Military

### OVERVIEW

The PADES®2000 digital programmable matrix relay unit DAM-2525 B is used to control and monitor speaker lines in the PADES-2000 system. The DAM-2525 A unit is equipped with two module slots in which up to 2 DAM-2526 B digital programmable matrix relay modules can be inserted. Since each DAM-2526 B digital programmable matrix relay module can distribute the four amplifier inputs (free share load) to up to 20 speaker lines, a fully expanded DAM-2525 A unit can control up to 40 speaker lines.

The integrable digital line measurement module DMS-2022 B (option) enables the measurement of each speaker line for impedance, interruption, short circuit and ground fault. Up to 25 digital programmable matrix relay units DAM-2525 A can be operated in the PADES- 2000 system, so that a maximum number of 1000 lines can be achieved.

The digital audio management control unit enables control and monitoring of the system functions. The integrated 32-bit ARM Cortex M3 digital processor with a clock frequency of 100 MHz has sufficient computing power for real-time control, internal checking and for communication with the digital audio programmable matrix relay unit DAM-2525 A. The configuration is carried out via the connected digital audio management unit DAM-2500 A/B or DPM-2500A (or optionally via the RS-232 digital interface module DAM-2587 B or via the digital network interface module RS-485 DMS-2064 B). The operating states ON and ERROR are displayed with two LEDs.

The system software license includes all user-specific factory programming of the system, such as the group definitions for a general call announcement, background music or an alarm. The watchdog-monitored acoustic display of error statuses and fault message output (potential-free changeover contact), as well as watchdog-monitored alarm output (2-pole potential-free changeover contact) provide a defined error status even if the processor fails. Automatic switchover to emergency power operation with simultaneous actuation of the power failure output (potential-free changeover contact) is available in the event of a power failure.

For warranty reasons, all options can only be installed in the factory. All system components are delivered exclusively project-related. A purchase of individual components is unfortunately not possible.

**PADES** <sup>®</sup> 2000-Series



## TECHNICAL DATA

### Digital-Programmable-Matrix-Relay-Unit (DAM-2525 A)

Relay matrix (full configuration)	2 pieces 2x20
Control inputs	10
Switching outputs for slave clock	1 pole change, max. 1A
Switching outputs for error status	1 changeover contact
Power supply (main supply)	220-240 V AC, 50/60 Hz Power supply
Power supply (backup supply)	24 V DC Power
Power consumption	483 × 44 × 300 (1U)
Dimensions (W × H × D)	24V DC
Weight (when fully expanded)	5.0 kg
Protection class IP30	IP30

### Digital-Programmable-Matrix-Relay-Module (DAM-2526 A)

Interface	24V DC
Amplifier inputs	200 mA
Spare amplifier inputs	2 x RJ45 (CAN)
Line outputs	10

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**AUDEMO - SYSTEMS GmbH (Headquarter)**

Schatzbogen 62 81829 Munchen  
Tel.: +49 (0) 89 1 4 56 78 47 - 0, Fax: +49 (0) 89 1 4 56 78 47- 2900  
info@audemo-systems.de, www.audemo-systems.de

**AUDEMO Middle East General Trading (Middle East & North Africa)**

P.O.BOX: 43594, Abu Dhabi, United Arab Emirates  
Tel : +971 (02)6263836, info@audemo-me.com