

Desigo® Fire Safety Modular System

Zone-Amplifier Module (180-Watt) Model ZAM-180

Architect & Engineer Specifications

- ☐ 180-Watt audio amplifier
- ☐ Selectable audio levels:
 - 25VRMS, 150 Watts
 - 70VRMS 180 Watts
- ☐ Local audio input
- ☐ Speaker lines supervised when active or inactive
- ☐ Class 'B' or 'A' wiring
 - Split-zone (A / B) wiring on Class 'B'
- ☐ Takes one (1) module space, mounting directly on back box or optional Model CAB-MP mounting plate
- ☐ Supports and switches up to eight (8) digital audio channels
- ☐ Internal amplifier supervision
- ☐ Backup amplification available
- ☐ UL864 & CAN / ULC-S576 Listed

Product Overview

The Model ZAM-180 is a combination 180-watt, amplifier / speaker zone for use with Desigo Fire Safety Modular systems. Class 'B' or Class 'A' speaker-zone wiring is supported, as well as split-zone, (A / B) speaker-zone wiring configurations on Class 'B'. Model ZAM-180 can be configured to provide 150 watts of audio at 25VRMS or 180 watts of audio at 70VRMS.

Model ZAM-180 takes one (1) module space, and mounts directly on back box or optional Model CAB-MP mounting plate. Model ZAM-180 is capable of amplifying any of the eight (8) digital audio channels that are transmitted from Model DAC-NET; via the digital audio bus audio serial Interface (Model ASI).

Model ZAM-180 is supervised for functionality.

Model ZAM-180 can be used as a single, 180-Watt speaker zone for (1) one-to-eight (8) channel applications, or as a bulk amplifier for (1) one-or-two (2) channel applications feeding high-level audio to Model ZIC-4A or Model ZIC-8B. The speaker lines are supervised for open, short-circuit and ground-fault applications, and are supervised in both the active and inactive states.

To provide amplifier backup, additional Model ZAM-180 modules can be used to achieve the desired amplifier backup ratio of 1-to-1, or 1-to-many.

Model ZAM-180 takes one (1) sub-address of Model DAC-NET, and receives control and communication data from Model DAC-NET, via the CAN Bus on the DAC-NET.

Model ZAM-180 contains an inherent degrade-mode backup tone (Slow Whoop), which serves as a secondary backup to the primary backup tone or digital message provided by Model DAC-NET. Additionally, local audio input is provided to connect an external audio source.

The local audio input is activated, via an external contact. The local-audio input has the lowest priority of all signals.



Model ZAM-180



Application Note

Model ZAM-180 meets the UL464 requirement for 520 Hz low-frequency signal tone, as described in the section for **Determination of Low Frequency Signal Format** in the **Standard for Audible Signal Appliances** – when used with Models ‘SEH’ and ‘SEFH’ series of Siemens high-fidelity notification appliances.

Typical Applications

Emergency

- Fire Evacuation
- Tornado Alert
- Terror Alert
- Building Emergency

Non-Emergency

- Convenience Paging
- Background Music

Temperature and Humidity Range

Model ZAM-180 is UL 864 10th Edition Listed for indoor dry locations within a temperature range of 120 +/- 3°F (49 +/- 2°C) to 32 +/- 3°F (0 +/- 2°C) and a relative humidity of 93 +/- 2% at a temperature of 90 +/- 3°F (32 +/- 2°C).

Electrical Ratings

INPUT POWER		
24V BACK PLANE CURRENT		0mA
24V CURRENT [SCREW TERMINAL]	@ 190W	9.5A
	@ 90W	4.9A
	@ 45W	2.7A
	@ 0W	0.3A
6.2V BACK PLANE DRY CONTACT		0mA
24V CURRENT (STANDBY)		300mA
MAXIMUM OUTPUT POWER		
@190W		150V
@90W		190V
@45W		165V
6.2V Back Plane Current		24V @ 10A power limited

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
ZAM-180	500-035600	180-Watt Zone Amp.

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice.
The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

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