Audio Distribution Module 4-Way

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Distributes one audio line to multiple switchable channels

A short circuit on one channel does not disable the other channels

80 Watt per channel switching capacity

Product Overview:

The Pertronic Audio Distribution Module 4-Way (ADM-4) provides multiple independently controlled and monitored 100 VRMS audio lines (channels). Several **ADM-4** modules may be connected to a single amplifier, providing **four switchable audio channels** per **ADM-4**. This simplifies audio system installations by allowing four or more spurs from a single 100 Volt audio line without compromising the defect monitoring system.

A system built with ADM-4 modules will continue operating even if some channels develop faults. If any channel becomes short-circuited, output on all channels will be interrupted. After a brief delay (about 20 seconds), the shorted channel will be disconnected. Output will then resume on the unaffected channels. The monitoring system will continue to monitor the shorted channel, and it will automatically reconnect the channel if the fault is cleared.

The built-in fault monitoring system continually monitors the 100V output lines for open-circuit or short-circuit conditions, irrespective of whether the system is broadcasting an evacuation message, broadcasting non-urgent audio such as background music, or idling with no signal.

Each channel may be permanently enabled using the local DIP switch, or enabled/disabled by a remote control signal.

The module also includes a Form-C clean contact fault relay for connection to monitoring equipment. Optionally the module can signal a fault condition by switching a 6.8 kΩ fault resistance across the incoming audio lines. If required, the **Audio Distribution Module** can be configured to ignore faults in the active state, allowing for further downstream switching (for example, using the System Sensor M500S).

Audio Distribution Module 4-Way (ADM-4)

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Features:

- Simplifies installation of audio evacuation systems by providing multiple monitored audio channels
- Multiple units can be connected together, providing four channels per unit
- A short circuit on one channel will be isolated allowing audio transmission over the other channels
- **Channel Select** input provides individual channel switching
- Superior 80 Watt per channel switching capacity
- On-board DIP switch allows individual channels to be permanently selected
- Separate open-circuit (O/C) and short-circuit (S/C) fault indicators for each channel
- Control inputs can be isolated from the on-board circuitry
- User selectable **End of Line** input resistor to suit amplifier specifications
- Compatible with Pertronic 20 Watt & 50 Watt amplifiers, and amplifiers controlled by the Pertronic EVAC Generator Module

Specifications:

- ▶ Dimensions   140 x 98 x 27 mm   L x W x D mm
- ▶ Operating Voltage   18 Vdc to 30 Vdc
- ▶ Quiescent Current   16 mA @ 27.4 Vdc
- ▶ Maximum Fault Current   25 mA @ 27.4 Vdc
- ▶ Power per Channel   80 W (100 Vrms Line)
- ▶ Maximum Power Capacity   250 W total per module
- ▶ Monitoring (Output)   Monitored for open-circuit (O/C) and short-circuit (S/C) conditions
- ▶ End of Line   47 kΩ, 0.5 W EOL
- ▶ Relay Rating (Fault Output)   2 A @ 30 Vdc   Form-C clean contact
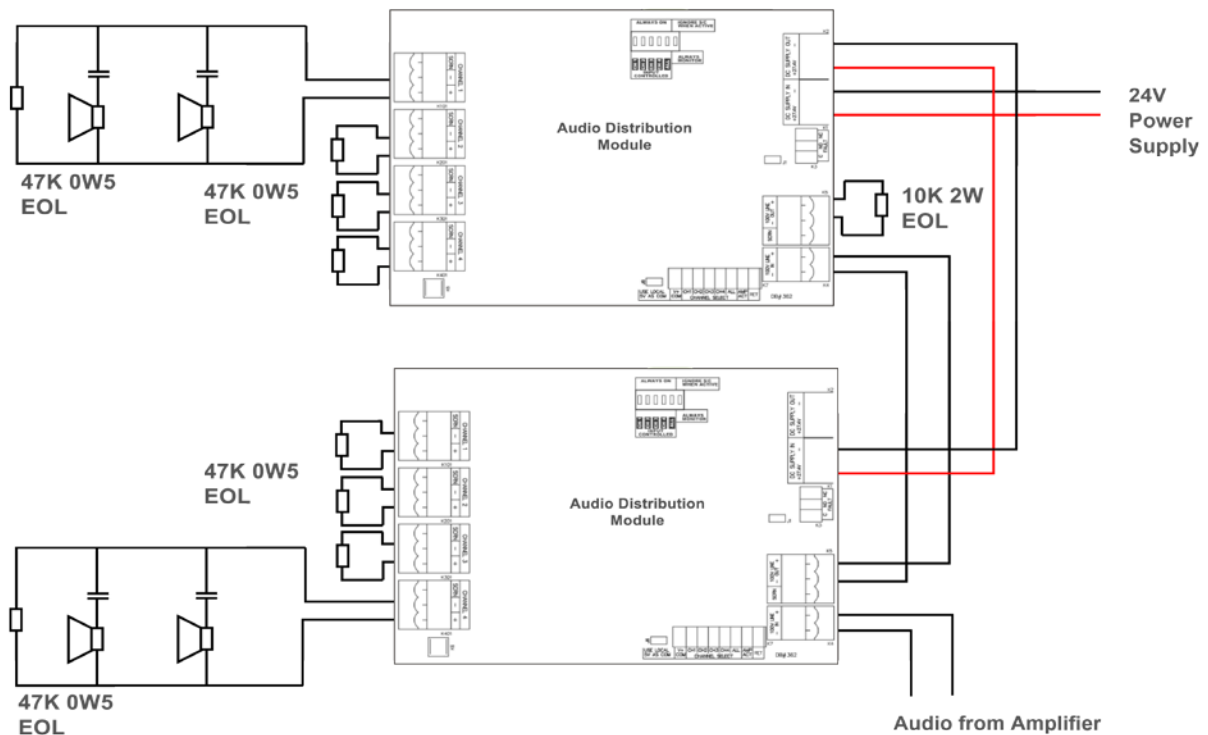- ▶ Recovery Time   20 seconds (approx.)   After detecting short-circuit on any channel

100V Line

- ▶ Maximum Voltage   100 Vrms
- ▶ Fault Condition   6.8 kΩ placed across line   (If jumper selected)

Control Inputs

- ▶ External Drive Voltage   5 Vdc to 30 Vdc
- ▶ Current Per Input   5 mA to 8 mA

Connections:

Application Example: Two ADM-4 units driving up to eight audio channels from a single 100 V line

Ordering Information:

Product Code	Description
ADM-4	Audio Distribution Module, 4-Way