

Audio Distribution Module 2-Way

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ISO 9001:2008

Certificate No:
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*Splits one audio line into two independently monitored channels
A short-circuit on one channel does not disable the other channel
Designed for projects requiring duplicate audio circuits per evacuation zone*

Product Overview

The **Pertronic Audio Distribution Module (ADM-2-PMB125)** creates a pair of independently monitored 100 Vrms audio lines (channels). This module simplifies the provision of two separate audio channels covering one area or evacuation zone.

A system built with an **ADM-2-PMB125** will continue operating even if one channel develops a fault. If either channel becomes short-circuited, output on both channels will be interrupted briefly. After a pause of about 2 seconds, output will resume on the unaffected channel.

The shorted channel will be disconnected. The monitoring system will continue to monitor the shorted channel, and it will automatically reconnect the channel if the fault is cleared. This ensures evacuation messages can be broadcast over one channel, even when the other has been compromised.

The **Audio Distribution Module** can be installed remote from the amplifier. This eliminates the need for two separate amplifiers and cables for each area or evacuation zone when duplicate audio circuits are required. The module can be powered from an analogue addressable loop, or from a separate 24 Vdc supply.

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

The **Audio Distribution Module** independently monitors the output channels and signals a fault condition to the amplifier or evacuation generator in the event of a fault condition.

Features:

- ▶ Simplifies installation of audio evacuation systems by providing duplicate monitored audio channels
- ▶ A short circuit on one channel will be isolated allowing audio transmission over the other channel
- ▶ Superior 80 Watt per channel switching capacity
- ▶ Powered from analogue addressable loop or separate 24 Vdc power supply
- ▶ Earth connection for screened cable on the 100 V line
- ▶ Local fault LEDs display existing (steady) or historical (flashing) faults, including separate S/C and O/C indicators for each channel
- ▶ Fault relay with form C clean contact
- ▶ Reset switch allows historical fault indications to be cleared
- ▶ Built-in analogue addressable loop isolator disconnects the loop if it develops a short-circuit
- ▶ User selectable **End of Line** input resistor to suit amplifier specifications
- ▶ Compatible with Pertronic Evac amplifiers, and amplifiers controlled by the Pertronic EVAC Generator
- ▶ Compatible with third-party equipment including the Tyco QE 90 EWIS and the AMPAC EV3000



**Audio Distribution Module 2-Way
ADM-2-PMB125**

Specifications:

▶ Dimensions	125 x 125 x 55	(H x W x D mm)
▶ Operating Voltage	15 Vdc – 32 Vdc	
▶ Quiescent Current	40 mA @ 24 Vdc	
▶ Maximum Fault Current	50 mA @ 24 Vdc	
▶ Power per Channel	80 W	Monitored 100 Vrms Line
▶ Maximum Total Power	160 W	Per ADM-2 module
▶ Input End of Line	10 kΩ, 1 W EOL Resistor	Easily changed to suit audio source
▶ Fault Relay	2 A @ 30 Vdc Form C Clean Contact	Resistive load
▶ Fault Signal	Input EOL resistor increased by 150 kΩ	

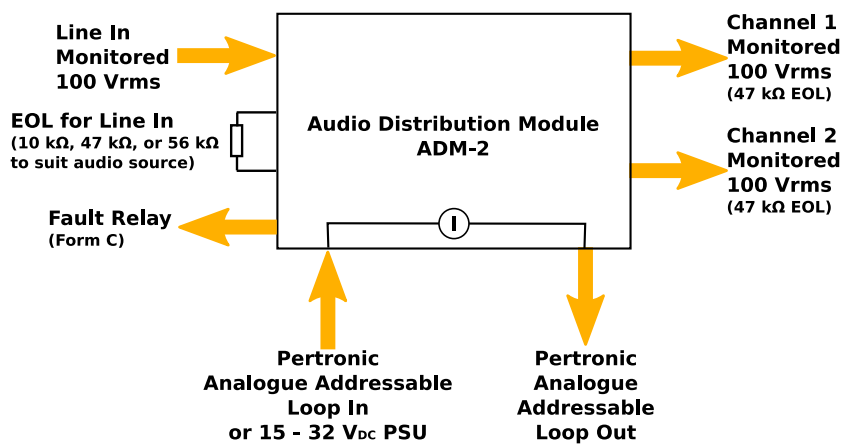
100 V Monitored Output Channel

▶ Maximum Voltage	100 Vrms
▶ Output End of Line	47 kΩ, 0.5 W EOL / Channel
▶ Max. Shunt Capacitance	270 μF
▶ Monitoring	Continuously monitored for open-circuit (O/C) and short-circuit (S/C) conditions

Environmental

▶ Operating Temperature	-10 °C to +50 °C
▶ Humidity	≤ 95 % RH non-condensing

Application Diagram:



ADM-2-PMB125
Interior

Typical connections for duplicate evacuation system

Ordering Information:

Product Code	Description	NZFPA Listing No:
ADM-2-PMB125	Audio Distribution Module, 2 way, mounted in PMB125 enclosure	
ADM-2	Audio Distribution Module, 2-Way (PCB Only)	

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