![TMCDAS logo - voice alarm evacuation systems]

ISOLATOR

IS8200-5

Thank you for purchasing the TMCDAS IS8200-5 Isolator.
Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment

1. SAFETY PRECAUTIONS

- Before installation or use, carefully read all the instructions in this section for correct and safe operation.
- Follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.
- After reading, keep this manual handy for future reference.

> ⚠ **CAUTION** Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

- As up to 100V is applied to the terminals, never touch the terminals to avoid electric shock. Leave all cable connections on the unit to a professional contractor.

2. GENERAL DESCRIPTION

IS8200-5 is an isolator system for controlling a high voltage loudspeaker network. The isolator is made as a small box with a PCB for mounting on top of a fire dome of a ceiling loudspeaker or built into a housing of a wall-mounted loudspeaker. The isolator can also be used as an independent isolator circuit for several loudspeakers. This is a cost-saving method of engineering a loudspeaker network.

In case of solitary use without connection of a loudspeaker, a resistor needs to be mounted on the speaker terminal between the common and 10W connection: i.e. the isolator does not want to see a transformer on a loudspeaker connection otherwise proper functionality of the isolator cannot be expected.
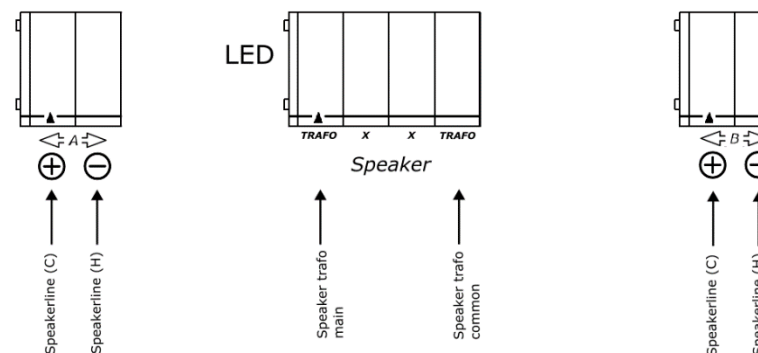
The proper functionality of the isolator is indicated by an LED, which will display three states:
- Blinking once per second: Indicates proper functionality
- Blinking twice per second: Indicates a problem with the left side due to a shortcut
- Blinking three times per second: Indicates a problem with the right side due to a shortcut
- Blinking four times per second: Indicates the startup of the isolator during switch-on, signaling the status of line powering.

3. HANDLING PRECAUTIONS

- Do not install units in locations exposed to direct sunlight or heaters, as this could cause deformation or discoloration of the unit.
- Avoid installing or storing in the unit in dusty or humid locations, as this may lead to the unit's failure.
- Keep the unit as far away as possible from fluorescent lamps, digital equipment, PCs, or other equipment which generates high-frequency noise.
- Because the unit is "hot-pluggable", the system needs to be shut down when installing or removing it.
- Note: Ensure correct polarity (positive and negative orientation) when connecting. Reversed polarity connections can cause failure.

4. CONNECTION

5. SPECIFICATIONS

The operational principles of the short circuit isolator as outlined in Annex A of the EN54-16.

Type of short circuit isolator	Two-directional
IP protection	IP 55
Working conditions range (°C)	-10 °C to 55 °C
Dimensions (l x w x h)	60mm x 88mm x 34
Weight (kg)	0,2 kg
Reverse polarity protection	Yes
Recommended speaker line cable	Shielded cable 2 x 1,5mm^2 or similar
Maximum connectable speaker wattage (W)	10W

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