

# ISOLATOR

## Installation Manual IS8200-1

Thank you for purchasing the TMCDAS 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

IS8200-1 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 6W connection: i.e. the isolator does not want to see a transformer on a loudspeaker connection otherwise proper functionality of the isolator can not be expected.

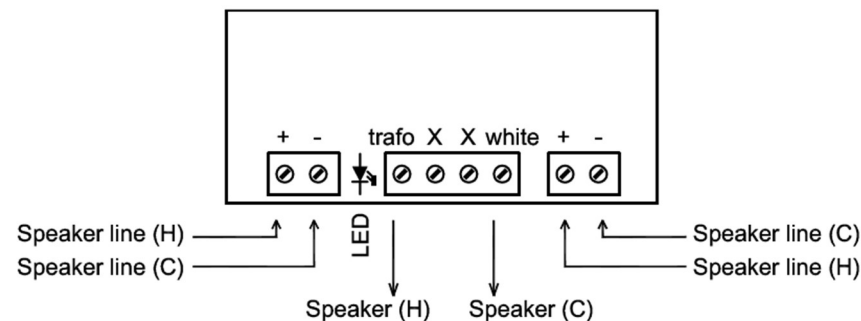
The proper functionality of the isolator is indicated by an LED, which will display three states:

- 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 unit 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)	60 grams
Reverse polarity protection	Yes
Recommended speaker line cable	Shielded cable 2 x 1,5mm <sup>2</sup> or similar
Maximum connectable speaker wattage (W)	6W