

LOOP MONITOR

Installation Manual IS8200-100

Thank you for purchasing the TMCDAS Loop Monitor
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

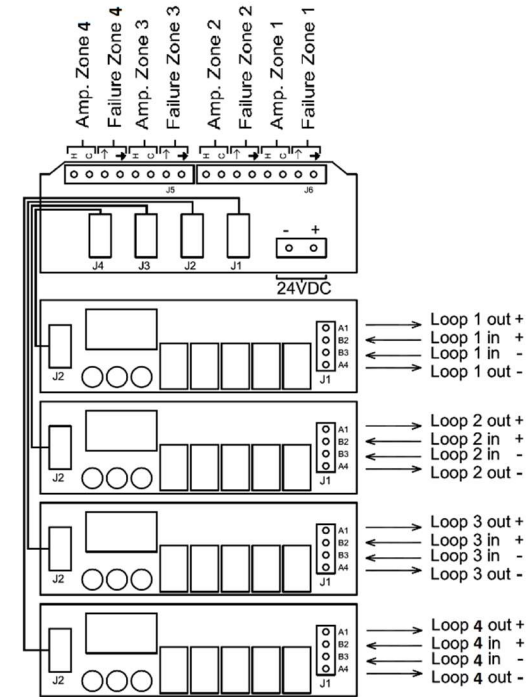
The IS8200-100 loop monitor is a device that connects to the output circuitry of any voice alarm evacuation system. It functions as a standalone system that controls a 100V loop speaker line network with TMCDAS IS 8200 isolators. The system is constructed with an IO zone C base board and a maximum of four IO PCB B loop monitor boards. Each PCB B board can power up to 66 isolators in a 100V speaker line and controls the signal path in two directions: from left to right and vice versa. The maximum output power per IO PCB-B board is 200 Watts. The nominal power is 140W on the speaker line. Short circuits in the speaker line will be detected immediately within 3 seconds, while interruptions or breakages will be detected within 100 seconds.

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.

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4. CONNECTION



5. SPECIFICATIONS

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

Maximum line voltage	30V DC
Nominal line voltage	24V DC
Minimum line voltage	20V DC
Maximum connectable IS8200 (in one loop)	66 pcs.
Maximum speaker load (in one loop)	200W
Maximum speaker cable length (1,5mm ² cable)	1000 m
Working conditions range (°)	-10 °C to 55 °C

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