



# STARKSTROM Ltd

## Insulation, Load & Temperature Monitor - IPSM002-MB

### Product description:-

The Isolated Power System Monitor permanently monitors the insulation resistance of the unearthed AC network, mainly found in Group 2 Medical Locations. The current and temperature of the Isolation Transformer are also permanently monitored. This DIN rail device is suitable for panel assembly.

### Function:-

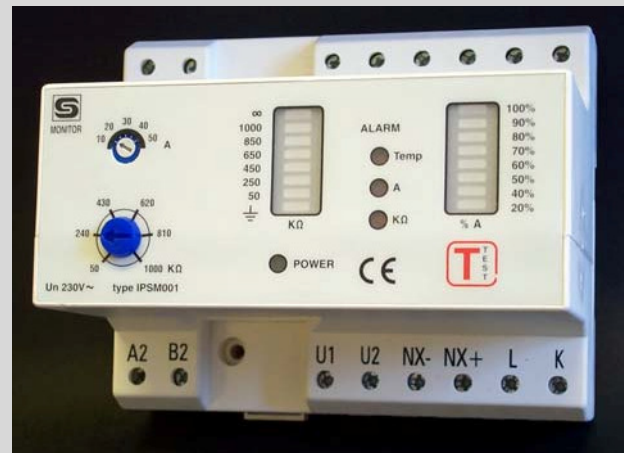
A DC measuring voltage is superimposed on the network. Any ohmic insulation fault path between the network and earth is detected. If the reading is below the selected response value the relay K1 and the KΩ LED will operate. The bar graph indicator permanently shows the system insulation level to earth in Kilo Ohms. The current passing through the Isolation Transformer is measured via an external CT. If the current exceeds the adjustable reference value the relay K1 and the "A" alarm LED operates. The bar graph indicator permanently shows the percentage current in use. The core temperature of the Isolation Transformer is also permanently measured via a built in thermistor. The K1 relay and the "Temp" alarm LED will operate if the core temperature rises above the operating normal. By pressing the Test button all the above functions and indicators are tested.

### Alarms:-

The K1 relay provides a volt free contact (N/O – 15, 18) which can be included as an alarm signal in the Building Management System.

The IPSM002-MB can also provide power to a single Alarm Annunciator (RA003) showing Insulation and Load scales together with LED Alarm Indicators. Communication between the Monitor and Alarm Annunciator is in twisted-pair RS485/Modbus format.

The IPSM002-MB can communicate with multiple Remote Alarm Annunciators (type RA003 or RA004) via multi-drop twisted-pair RS485/Modbus cable.



Monitoring of AC single phase network. (IT Networks) 230V 50Hz Volt

- Active measuring principle with superimposed DC measuring voltage
- Monitors Transformer load current and winding temperature
- Response values adjustable 10...50 A and 50.....1000 Kohms
- Volt free Alarm contact, rating 2000VA
- Test button
- Power and RS485 for remote Alarm Annunciator Panel.
- Consumption: 6VA