

Isoloc

Insulation Monitor & Earth Fault Limiter



Electrical Distributors



Note: ISOLOC 315M replaced with ISOLOC 315RM which complies with SANS 10142 specifications.

The ISOLOC 315RM insulation monitor and earth fault current limiter, when used in conjunction with an isolated power supply, provides the most advanced form of protection against electric shock due to earth leakage current.

Key Features:

- Manufactured and supported in South Africa
- High impact strength enclosure
- Front panel ohmmeter to display insulation resistance
- Visual indication for contact operation
- Test button allows for alarm circuit test
- Continuous insulation monitor
- Earth fault current limiter

Functions:

- System Voltage:
 - 220 to 250 V single phase and 380 to 440 V three phase
- Frequency:
 - 50 and 60 Hz
- Fault limiting inductance:
 - Inductance 320 Hz or 480Hz
- Inductive resistance:
 - At 50 Hz = 100Ω and 60 Hz = 120Ω

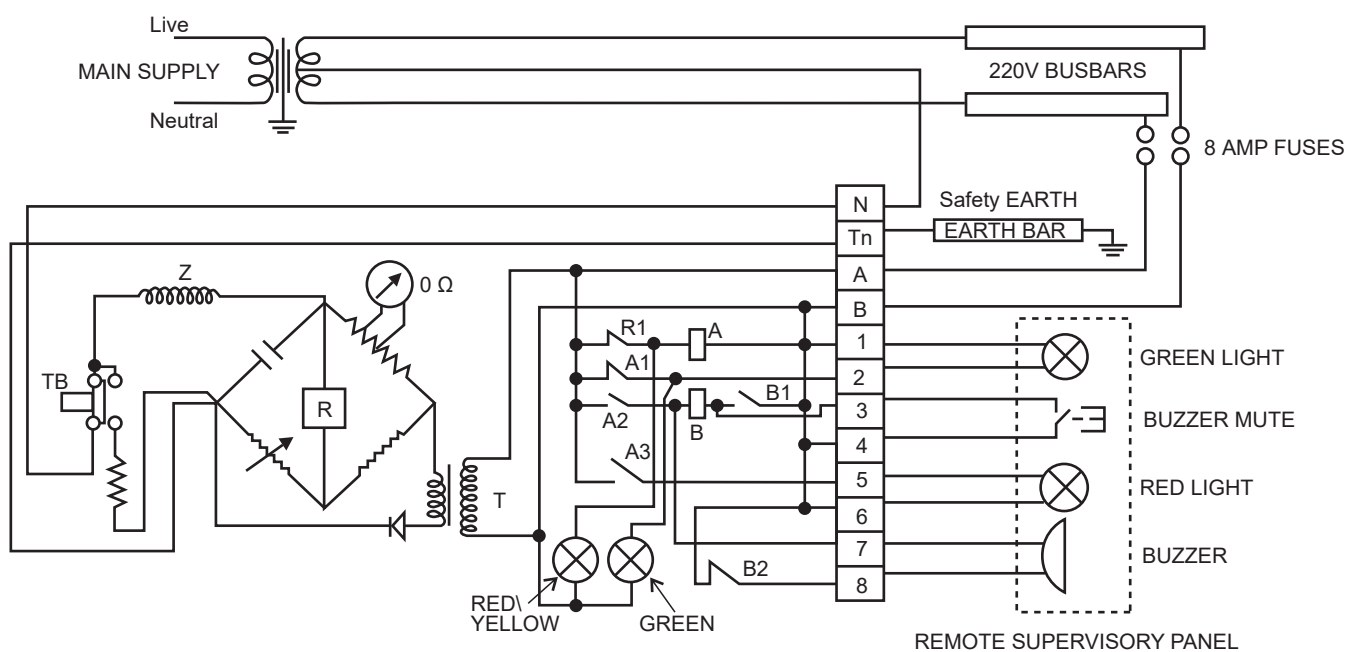
This compact insulation monitor has been designed for use in the following situation to monitor:

Hospitals	: Electricity supplies in operating theater and intensive care wards
Ships	: Shipboard and shore to ship L.V. supplies
Industries	: L.V. control circuit supplies in monitor control centres
Hazardous Environment	: To limit earth fault current and monitor L.V. supplies

Performance

System voltage:	The standard unit may be used on 220 - 250 Volt single phase and 380 - 440 3 phase, 3 wire 50 Hz or 60 Hz systems.
Fault limiting impedance:	Inductance $\pm 320\text{Hz}$ or $\pm 480\text{Hz}$
Inductive reactance:	At 50 Hz - 100 At 60 Hz - 120
Range of adjustment of fault level detection:	100 - 5000 ohms
Alarm contact rating:	Switching capacity: 1100VA - 120W resistive Load 440VA - 48W L/R = 7ms Maximum: 250VAC or 125VDC 5 A D C o r A C
Maximum D.C. current injected into fault for zero ohm fault:	1 milliamperes
Excitation supply:	110 or 220 Volts, 50 or 60 Hz. Single phase

Internal wiring shown as a functional representation only



- | | | | | | |
|---|---|---------------------------------------|----|---|---------------------|
| L | - | Fault limiting inductance | O | - | Indicating ohmmeter |
| R | - | Relay (Energised when system healthy) | TB | - | Test button |
| T | - | Step-down transformer | AB | - | Auxiliary relay |

Note: For remote supervisory, use interposing relays for long distance wires.

Contacts shown in a tripped condition