



HOSPITAL ISOLOC[®]

INSULATION MONITOR AND EARTH FAULT LIMITER

The ISOLOC insulation monitor and earth fault current limiter, when used in conjunction with an isolation transformer, provides a most advanced form of protection against electric shock due to earth leakage current.



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GENERAL INDUSTRY • UTILITIES • MINING

OPERATIONAL INFORMATION & SPECIFICATIONS

HOSPITAL ISOLOC®

The Hospital Isoloc was developed to limit the damaging outcome that earth faults can have on lives and equipment. It provides safety to medical operating personnel as well as assets by limiting the earth fault current whilst ensuring continued operation at the occurrence of the first earth fault.

The Hospital Isoloc has three built in output relays offering the user the option of visible, audible or remote alarm indication.

For well over half a century the Hospital Isoloc has been successfully used in hospitals as well as process plants in South Africa and the rest of the continent.

Why buy a Hospital Isoloc

The Hospital Isoloc is designed, manufactured and supported in South Africa.

It is installed in hospitals to monitor electricity supplies in operating theaters and intensive care, high care and recovery wards.

Hospital Isoloc is also used in motor control centers or similar equipment ensuring uninterrupted production in any plant. All critical stages of a production line are continuously monitored by the Hospital Isoloc eliminating potential earth fault trips.

It's simplicity of design also allows non-technical people to monitor the equipment.

A button on the front panel facilitates easy testing.

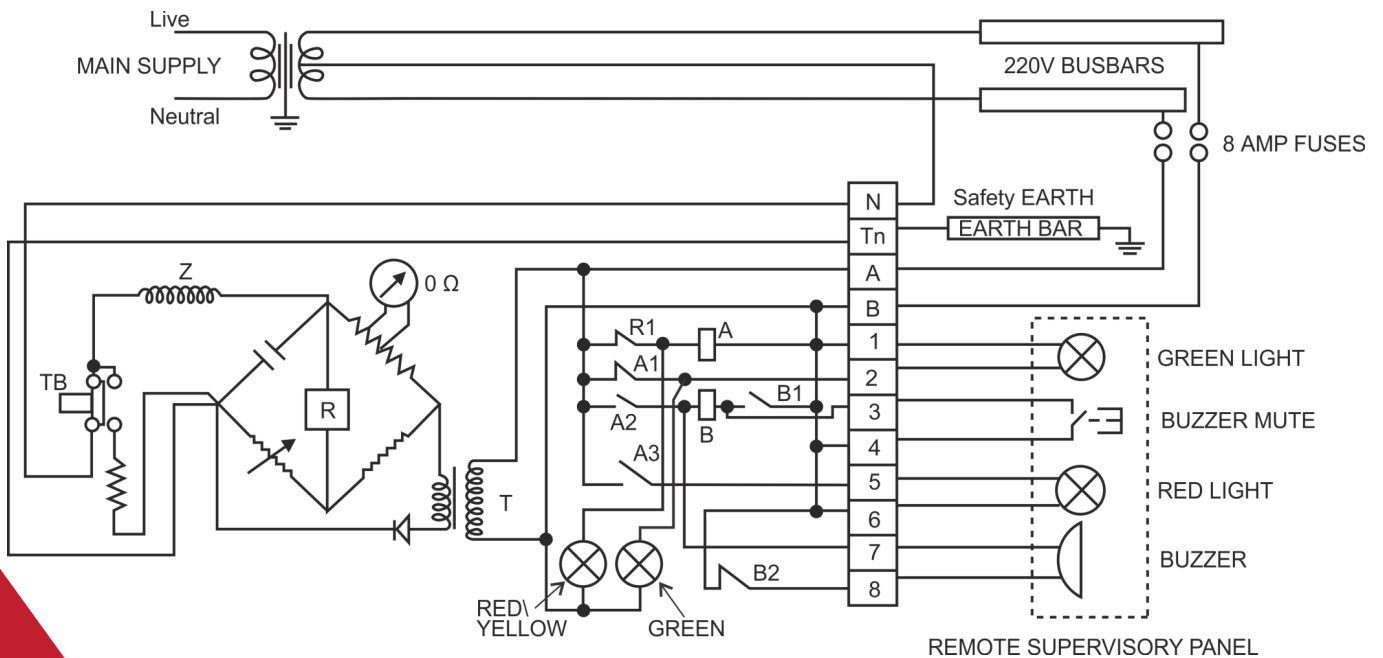
The use of the Hospital Isoloc is instrumental in protecting lives by restricting the fault current, limiting the potential damage to the equipment caused by earth fault anomalies.



Key features and functions for the Hospital Isoloc

Functional wiring diagram

Shown as a functional representation only. Contacts shown in a tripped condition.



A,B - Auxiliary supply
 N - Centre tap of auxiliary supply
 R - Relay (Energised when system healthy)
 T - Step-down transformer

TB - Test Button
 Tn - Isoloc earth
 Z - Fault limiting inductance
 1-8 - Terminal for remote connections

Key features and functions for the Hospital Isoloc

The Hospital Isoloc has a high impact strength enclosure.

For ease of monitoring, an analog 0hm meter on the face plate displays continuous insulation resistance.

A test button on the Hospital Isoloc allows to conveniently simulate a fault condition and thus the integrity of the protection functionality whilst in situ.

Insulation threshold can be set manually.

Built in earth fault current limiter ensures continuous operation.

A pig-tail terminal block for ease of wiring is standard with any Hospital Isoloc.

Operating parameters

System Voltage: from 110 V to 250 V single phase

Frequency: 50 and 60 Hz

Adjustable range of fault level detection: 100-5000 ohm

Inductive resistance: at 50 Hz = 100Ω and 60Hz = 120Ω

Alarm relay contact rating: 5A DC or AC, 250 VAC or 125 VDC



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