

Short Circuit and Earth Fault Indicator Tester

This device tests and indicates short circuits and earth faults in electrical systems. It is designed for accurate fault detection and indication, ensuring the safety and reliability of electrical installations.



ADDITIONAL IMAGES



Overview

Real-Time Fault Monitoring

This short circuit and earth fault indicator system is designed for installation in RMUs, cable branch boxes, and substations within electricity distribution networks. It provides real-time monitoring of short circuits and single-phase ground faults, enabling rapid identification of faulty cable sections to minimize downtime. The system enhances operational efficiency, accelerates power restoration, and improves overall service reliability for electrical infrastructure.

Technical Parameters

Key Operating Limits

150 A

Min Short Circuit Alarm

5 A

Min Earth Fault Alarm

20 kV

Max System Voltage

Short Circuit Detection

Parameter	Value
Alarm Current Range	e15A (continuously adjustable)
Factory Setting	1200A
Time Delay	20-300mS (factory 60mS)
Sensor Withstand Current	20kA / 4S

Earth Fault Detection

Parameter	Value
Alarm Current Range	5A-400A (continuously adjustable)
Factory Setting	10A
Time Delay	20-300mS (factory 200mS)

Power & Environment

Power & Battery

- Battery Type: ER14505 Lithium 3.6V/1.9Ah
- Battery Life: Up to 8 years
- Standby Current: $10\mu\text{A}$
- Low Battery Alert: e60 days of warning

Environmental Conditions

- Operating Temperature: -40°C to $+75^{\circ}\text{C}$
- Relative Humidity: $\leq 95\%$
- Mainframe Protection: IP40
- Sensor Protection: IP65

Features

Functional Capabilities

Automatic Reset, Manual Reset, Remote Alarm Output, Self-Test Function, Low Battery Alert, Remote Reset

Relay Output

30VDC/2A; 230VAC/1A