MULTISPAN

Earth Leakage Relay

ELR-63

ENVIRONMENT CONDITION :

Operating Temp.	0 - 55°C
Relative Humidity	95% RH

MECHANICAL INSTALLATION



SIDE VIEW



TERMINAL CONNECTION



FEATURE

- Earth Leakage Current Monitoring In 1Ø 2W, 3Ø-3W And 3Ø-4W System
- Test Mode Available.
- Auto/Manual Triping Reset Facility.
- LED Indiction (25%,50%,75%)
- Test/Trip Reset Via Front Key / Remote

TECNICAL SPECIFICATION

INPUT SPECIFICATION :

Input Current	0.00 To 3.00 mA AC From CBCT
Display Currant Range	0.03 To 3.00 Amp
Resolution	If Current in mA = 1 mA If Current in Amp = 0.01A

DISPLAY & KEYS :

Display	3 Digit, 7 Seg., 0.36", Red.
Keys	SET, INC, DEC.

OUTPUT SPECIFICATION :

Relay	1 Nos.
Relay Type	NO - C
Rating	5A,230V AC Resistive Load

AUXILIARY SUPPLY :

Supply Voltage	100 To 250 V AC
Power Consumption (VA Rating)	3VA @ 230 VAC MAX

KEY OPERATION

FUNCTION	KEY PRESS			
OPERATION MODE				
To Enter in Parameter Setting	SET			
To Enter in Test Mode	For 5 sec			
To Reset the Relay Contact Manually After Tripping	For 2 sec			
PARAMETER SETTING MODE				
To Increment Parameter Value				
To Decrement Parameter Value				
To Save & Exit From Parameter Setting Mode	(SET) For 3 sec			

MECHANICAL INSTALLATION

- 1) To install the instrument on a DIN rail, raise the clamp at the back of the instrument and place it on the rail. Now release the clamp, so the instrument fits on the DIN rail.
- 2) Ensure proper fitting of the instrument by pulling it outwards.
- 3) To remove the instrument raise the clamp to release it from the DIN rail.
- The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oil steam, or other unwanted process byproducts.
- 5) Do not connect anything to unused terminals.

MAINTENANCE

- 1. The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- 2. Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.
- 3. Fusible resistor must not be replaced by operator.

SAFETY PRECAUTION

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.



Read complete instructions prior to installation and operation of the unit.



WARNING : Risk of electric shock.

WARNING GUIDELINES

A WARNING : Risk of electric shock.

- 1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
- 2. To reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
- 3. Cable used for connection to power source, must have a cross section of 1mm or greater. These wires should have insulations capacity made of at least 1.5kV.
- 4. When extending the thermocouple lead wires, always use thermocouple compensation wires for wiring for the RTD type, use a wiring material with a small lead resistance (5 Ω max per line) and no resistance differentials among three wires should be present.
- 5. A better anti-noise effect can be expected by using standard power supply cable for the instrument.

INSTALLATION GUIDELINES

- 1. Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
- 2. Circuit breaker or mains switch must be installed between power source and supply terminal to facilitate power 'ON' or 'OFF' function. However this mains switch or circuit breaker must be installed at convenient place normally accessible to the operator.
- 3. Use and store the instrument within the specified ambient temperature and humidity ranges as mentioned in this manual.

LED STATUS INDICATION



1) 25% LED		
20% < Leakage Current< 25%	LED Blinking	
Leakage Current ≥ 25%	LED Continuously ON	
Leakage Current≤ 20%	LED OFF	
2) 50% LED		
45% < Leakage Current< 50%	LED Blinking	
Leakage Current ≥ 50%	LED Continuously ON	
Leakage Current≤ 45%	LED OFF	
3) 75% LED		
70% < Leakage Current< 75%	LED Blinking	
Leakage Current ≥ 75%	LED Continuously ON	
Leakage Current≤ 70%	LED OFF	
4) Relay LED		
Control Output Indication	on (ON/OFF)	
5) AMP LED		
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999 mA 1.0	0 A Reading	

PARAMETER SETTING







To Reset the Relay Contact after tripping two modes are given. 1) Auto Reset Healthy Condition relay mode = ON Trip Set Point = 2.00 Amp Hysteresis = 0.1 Amp Amp **Tripping Setting** Earth Leakage Current 66 66 Set Point HYST RLY-OFF RLY-ON ➤ Time **RLY-ON** 2) Manual Reset NOTE: When Leakage Current < Setpoint RST / TST Press OR Key for 2 Second NO C

Short RST/TST

pin for 2 second

RESET FUNCTION



Specifications are subject to change, since development is a continuous process, So for more updated operating information and Support, Please contact our Helpline: 9978991474/76/82 or Email at <u>service@multispanindia.com</u> Ver:191201