

INTRODUCTION

Normally Earth Leakage Detector (ELD) is connected to bus bars of the signaling supply which connects all the circuit powered from these bus bars and insulation resistance of these bus bars is measured with respect to ground.

ELD does not measure the IR of individual pair but of the Whole bus bar in the energized condition.

The function of this instrument is to measure the IR (Insulation Resistances) of the signaling pair (with load and without disconnection) when the signaling pair is in Unenergized condition.

SALIENT FEATURES

Instrument measures only when the signaling pair is isolated (un energized). In case a pair is energized the instrument stops functioning and a White LED indicates this condition. The meter is calibrated to read up to 50M and a Red LED indicate on reaching the set value (1M-10M). Unit isolates itself in presence of any bus-bar voltage. Basic operating principle confirms to RDSO/SPN/256/2002. Clause 3.1.5



TECHNICAL SPECIFICATIONS:

Supply Voltage	: 230V AC or 110V AC \pm 10% 50Hz or 110V DC \pm 10%
Detecting Voltage	: 300V DC Nominal
Detecting Current	: 500 μ A max.
Accuracy of Measurement	: Within \pm 2% \pm 2Digit
Resolution	: 1M
Measurement	: ON CT Rack without disconnection.
Protection	: Indicates PAIR ENERGISED and stops measurement.
Panel Controls	
Ref Setting (For low insulation indication)	: 1M, 2M, 3M, 4M,5M,10M & OFF Digital Meter can read up to 50M.
Meter	: Digital Meter : 1M Ω to 50M Ω (2 Line LCD Display) Isolation Indication : White LED with interrupted Buzzer sound Low Insulation indication : Red LED with continuous Buzzer sound
Weight	: 500gm (Approx.)
Dimension	: 170 X 143 X 30mm (Approx.)
Accessories	
Leads	: Three leads for Measurement (each 5mtr) : Two leads for Power (AC+DC)
Carry Case	: Carry Case Provided. : Operating manual : Calibration Report.

DATA SHEET 10/0802



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