

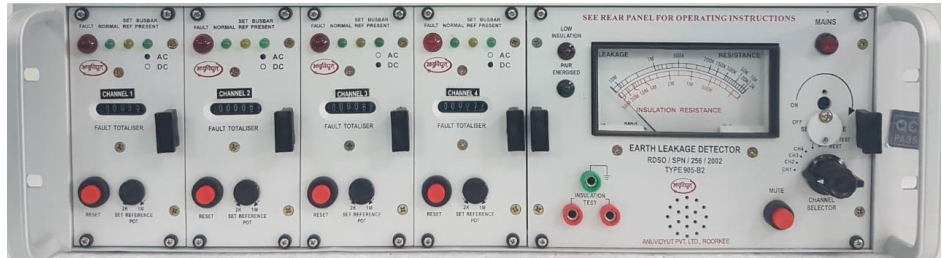
# MULTI-CHANNEL EARTH LEAKAGE DETECTOR

TYPE 905 – B2

as per RDSO/SPN/256/2002

## INTRODUCTION

All the channels of the equipment continuously monitor the Leakage Resistance of the system w.r.t Earth and an alarm is actuated along with a visual Indication when the leakage resistance value drops to the pre-set value. Each such fault is recorded on a 6-digit counter. Fault detection can be set in between 2K-1M $\Omega$ . The audio alarm is common for all Channels while the visual indication is separate for each channel. The Basic unit of ELD comprises of 4 channels for use on signaling circuit of 110V AC or 110V/60V/24V/12V DC (as required by the customers). In case of requirement for less number of channels, unused channels are covered with dummy plates while the inner wiring remains the same and these dummy plates can be replaced by channel modules if and when required in future. For more than 4 channels, say 8 or 12 channels, add on units are provided to be connected to the basic unit with suitable interconnecting cable/s and switches. The equipment also consists of an insulation resistance meter which can be connected to any individual circuit to indicate the actual value of the insulation resistance of the signaling circuit during un-energized condition i.e. off-line condition.



## TECHNICAL SPECIFICATIONS:

AC Mains	: 110V/230V AC, 50Hz.										
Signaling Supply	: 110V AC or 12V to 110V DC										
Power Consumption/ (Current Load at 110V)	<table border="1"><thead><tr><th>4-Ch ELD</th><th>8-Ch ELD</th><th>12-Ch ELD</th><th>16-Ch ELD</th><th>24-Ch ELD</th></tr></thead><tbody><tr><td>37 VA</td><td>61 VA</td><td>88 VA</td><td>115 VA</td><td>176 VA</td></tr></tbody></table>	4-Ch ELD	8-Ch ELD	12-Ch ELD	16-Ch ELD	24-Ch ELD	37 VA	61 VA	88 VA	115 VA	176 VA
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37 VA	61 VA	88 VA	115 VA	176 VA							
Leakage Setting Range	: 2K -1M through a helical potentiometer.										
Meter Range	: 2K -10M on analog meter with wide scale.										
Terminals provided for	: Remote indication, Remote Buzzer & Relay Contacts										

### Controls and Indications

#### Main Panel

Mains	: Red Neon Lamp
Channel Selector	: To select meter for particular channel/Insulation and Setting Reference.
Set Reference	: Potentiometer switch to select leakage Resistance Value to set reference
Mute	: Push switch to mute the Alarm

#### Channel Panel

Normal	: Green LED
Channel Set Ref	: Amber/ Yellow LED
Fault	: Red LED
Bus- Bar voltage presence	: Green LED
SET REF POT	: Pot to set reference in conjunction with Potentiometer on Main Panel
Dimensions	: Standard 19" sub-rack, (483W X 360D X 145H in mm) with Handles & Feet
Weight (Basic Unit)	: 9.5 Kg. Approx.

#### INSULATION RESISTANCE METER

Reference Setting Range	: Either of 500K, 1M, 1M5, 2M, 5M, 10M
Meter Range	: 500K -50M
Visual Indication	: Pair Energized - Green/White LED : Low Insulation - Red LED.

Part No.s.:	i) ELD 4-Channel: 905 B2-4C
	(ii) ELD 8-Channel: 905 B2-8C
	(iii) ELD 12-Channel: 905 B2-12C
	(iv) ELD 16-Channel: 905 B2-16C
	(v) ELD 24-Channel: 905 B2-24C

DATA SHEET 56/2002/082019



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