

## EarthLogger

EarthLogger provides comprehensive monitoring and logging of insulation resistance for unearthed IT systems, capable of handling up to four separate AC or DC busbar feeds at the same time. It facilitates long-distance, extended-time observation and management of electrical supply components, offering capabilities to observe, forecast, and avert possible issues. This enhances preventive measures, decreasing the chances of equipment malfunction.



## 4 Channel Remote Earth Insulation Logging

EarthLogger monitors and logs insulation resistance in unearthed IT systems of up to four independent AC or DC busbar feeds simultaneously. As an RCM device, EarthLogger enables off-site long-term trending and supervision of your power supply assets; allowing you to monitor, predict and prevent potential problems, reducing the likelihood of equipment failure or damage. Historical data can be viewed from anywhere via the embedded web server. No remote server required! Cables which run in parallel with AC electrified railways are subjected to induced voltages. If an earth leakage occurs in the cable, these voltages can disturb devices which are connected to both cables. When earth faults occur in both supply and return wires yet another hazardous condition is created. These faults can be detected reliably with MRD's ELD.

### Features

- 4 Channels, AC or DC 0-650V RMS
- Trend View via embedded web server
- Logs insulation resistance and busbar voltage
- Sunlight readable OLED display
- Remote test and reset
- Scheduled self-test function
- GSM/GPRS modem and Ethernet port
- Email, SMS notifications
- SNMP Traps

### Benefits

- Remote monitoring and logging of insulation resistance
- Allows detection and removal of faults before problems occur
- Data available in easy to interpret graphical format
- Identify the time and cause of fault using logs
- 4 Channels in one compact device



# EarthLogger

## 4 Channel Earth Insulation Logger

MRD Rail Technologies Pty Ltd

+61 7 3821 5151

sales@mrd.com.au

www.mrd.com.au



### Part Numbers

4-CH EarthLogger

EL - 4

## Technical Specifications

### General Data

|                        |                         |
|------------------------|-------------------------|
| Connection             | 4mm screw terminal      |
| Mounting Type          | DIN rail or screw mount |
| Dimensions (H x W x D) | 75 x 150 x 110mm        |
| Weight                 | 0.7kg                   |
| Operating Temperature  | -25 to 70°C             |

### AC Supply Voltage

|                 |               |
|-----------------|---------------|
| Supply Voltage  | 100 - 240V AC |
| Frequency Range | 50 - 60 Hz    |

### DC Supply Voltage

|                |               |
|----------------|---------------|
| Supply Voltage | 120 - 370V DC |
|----------------|---------------|

### Control Circuits

Control Inputs - Voltage Free

Remote reset

### Output Circuits

Alarm Outputs

2 x Relays (SPDT)

### Monitoring Voltage Range

|                   |             |
|-------------------|-------------|
| AC Busbar Voltage | 0 - 650V AC |
| DC Busbar Voltage | 0 - 300V DC |

### Protection Class

|                       |               |
|-----------------------|---------------|
| Internal Components   | IP30          |
| Terminals             | IP20          |
| Fault Contact Ratings | 1A at 250V AC |
|                       | 1A at 110V DC |
|                       | 2A at 30V DC  |

### Approval & Compliances

ARTC

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