

Multi-Channel Remote Earth Insulation Monitoring



EarthLogger® Earth Insulation Logger

Despite all the safety built into electrical systems, failures can and do occur. MRD's multi-channel EarthLogger monitors up to 4 different busbars, significantly reducing the likelihood of failure or accidents due to insulation faults. Remotely monitor your site with one detector.



EarthLogger®



Description:

The EarthLogger is designed to be used in unearthed IT systems where high reliability of the supply is required. Eg. railway, industrial, marine and power applications.

EarthLogger serves as an early warning system by providing notifications when the impedance between an active phase conductor and earth drops below a set value. The insulation resistance is logged and data can be viewed remotely giving operators the information they need in order to take appropriate maintenance measures.

Insulation resistance is the determining factor with respect to personal, equipment and fire safety. The insulation resistance on new installations and electrical equipment is usually very good. Over time, however, operation causes an inevitable reduction in insulation resistance. This degradation is monitored and safety is maintained through the use of MRD's EarthLogger.

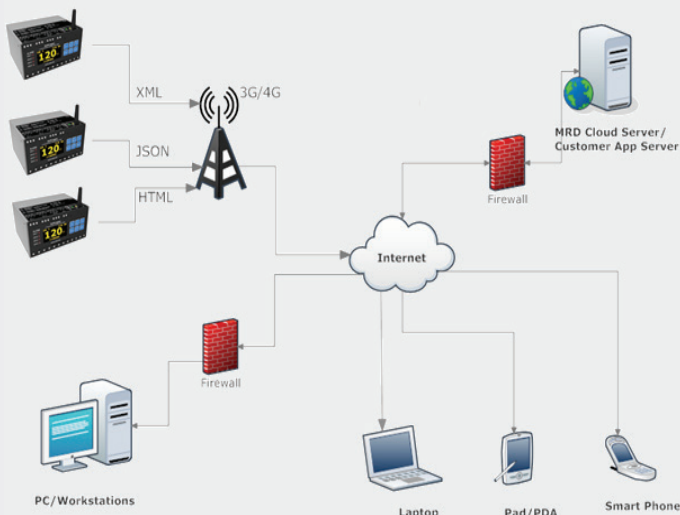
Features

- 1 - 4 Channels (AC / DC)
- Sunlight readable OLED display
- Remote monitoring via Ethernet or 3G/4G modem
- Internally logs insulation resistance and busbar voltage
- Scheduled self test function
- Remote reset function
- Embedded Web Server
- Cloud Web Server
- SMS and E-Mail notifications

Benefits

- Remote monitoring and logging of earth insulation
- Flexible channels monitor AC or DC busbars
- Detect and remove faults before problems occur
- Track the cause of fault using fault time log

Network Diagram



Technical Data

AC Supply Voltage

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

DC Supply Voltage

Supply Voltage	120 - 370V DC
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Control Circuits

Control inputs - voltage free	Remote reset
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Output Circuits

Alarm Outputs	2 x Relays (SPDT)
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Monitoring Voltage Range

AC Busbar Voltage	0 - 650V AC
DC Busbar Voltage	9 - 150V DC

Dimensions (H x W x D)

75mm x 150mm x 110mm

Weight

<1 kg

Environmental Conditions

Operating Temperature	-25... +60°C
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General Data

Connection	4mm screw terminal
Mounting Type	DIN rail or screw mount

Wiring Connections

- 2 - Wire AC System
- 3 - Wire AC System
- 4 - Wire AC System
- 2 - Wire DC System
- 3 - Wire DC System

Standards (Pending)

Product Standard	IEC/EN 61557-8, IEC/EN 60255-6
Other Standard	EN 50178
Low Voltage Directive	2006/95/EC
EMC Directive	2004/108/EC
RoHS Directive	2002/95/EC

Part Numbers

EarthLogger:	4 Channel Earth Logger
EarthLogger-M:	4 Channel Earth Logger with 3G/4G modem