

EarthWatch Pro Series

Continuous Earth Resistance Monitor

Product Description

RightWatts EarthWatch EW100 is a non-contact Earth Resistance Monitoring System (ERMS) designed for continuous, real-time monitoring of grounding loops in mission-critical installations with integration seamlessly with RightWatts FlexiConnect, BMS, and SCADA platforms.

Key Features

- Continuous earth resistance measurement (0.01Ω–100Ω)
- Non-contact sensor – safe & easy installation
- High accuracy & Fast response – 0.5s cycle
- Compact design for panel integration
- Multiple communication options including 4G, TCP, etc.
- Works with FlexiConnect controller for trend & alarms

Applications

- Data centers & IT facilities
- Hospitals & medical equipment grounding
- Industrial plants & process automation
- Defense & mission-critical infrastructure

Technical Specifications

| Parameter | Specification |
|--------------------|--|
| Measurement Range | 0.01Ω – 100Ω |
| Resolution | 0.001Ω |
| Accuracy | ±2%rdg ±3dgt (20°C ±5°C, <70%RH) |
| Measurement Time | 0.5 s |
| Power Supply | 6–12 VDC, 9-24V (Optional) |
| Communication | RS485 (Modbus-RTU), Optional 4G |
| IP Class | IP65 |
| Sensor Perforation | 65 × 36 mm 17mm (round) Custom |
| Temperature | Storage and Operating temperature (-20 °C to +70 °C) |
| Display | LCD 47 × 28.5 mm (Optional) |
| Weight | 200g - 715 g (with accessories) |
| Accessories | 1 Sensor, Connection wires |



EarthWatch Pro Series
Non-contact Earth Resistance Sensor

Integration Options:



With panel-mounted
LCD display



Single Earth Resistance
Monitor
A-LCD-D1



With panel-mounted
multi-parameter HMI



Multi Earth Resistance
Monitor (upto 10)
A-HMI-D31



With FlexiConnect
Integration



Seamless connectivity
with BMS & SCADA
FlexiConnect Pro

Included Software

This product comes with RightWatts Earth Monitoring Software, provided free of charge. The software enables real-time monitoring, data logging, and integration with BMS/SCADA platforms for seamless system management.

Ordering Information

| Model | Description |
|-----------|--|
| EW100-RS | Communication over RS485 (cable) |
| EW100-4G | RS485 (cable) with integrated 4G module |
| EW100-TCP | Communication over Ethernet (TCP/IP) |
| A-LCD-D1 | Local display for single earth resistance measurement |
| A-HMI-D31 | Local display for multiple earth resistances (10 channels) |



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