



## Silent Failures. Serious Risks.

Old-school earthing checks can't keep up. Corrosion and soil shifts silently spike resistance—risking lives and assets. Ditch the downtime with smart, real-time monitoring that's fast, remote, and future-ready



PARADOX INNOVATOR  
presents

# Smart Earth Resistance Meter



## Key Technical Specifications

**System Type:** Non-invasive, real-time earthing resistance measurement

**Input Supply:** 110 V - 250V AC

**Current Rating:** ~2A fused

**Controller Unit:** ATMEGA328P-PU

**Measurement Range:** 0  $\Omega$  to 75  $\Omega$

**Accuracy:**  $\pm 0.5 \Omega$

**Data Output:** Wired • On-site Display

**Communication Type:** RS485

**Power Consumption:** < 6 W typical

**Installation Type:** Fixed, wall-mountable or pole-mountable enclosure

**Operating Temperature:**  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$

**Enclosure Material:** ABS or weatherproof plastic

**Dimensions:** 102 mm  $\times$  117 mm  $\times$  57 mm

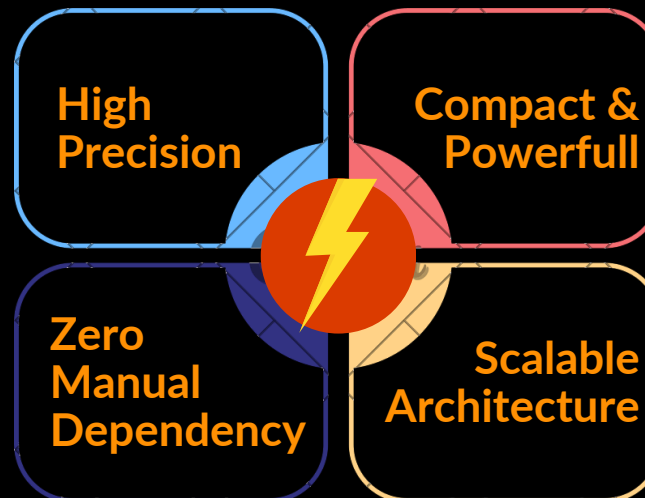
**Least Count:** 0.01  $\Omega$



## Our Smart Solution: Real-Time Earthing Resistance Monitoring

Developed by Paradox Innovator Group, our Smart Earth Resistance Meter is a cutting-edge, non-invasive solution designed to continuously monitor earthing resistance—without breaking the connection. Powered by ATMEGA328P-PU, the system measures the resistance with 99.99% accuracy\*.

## What makes us Stand Out!



## What We Offer?

### NEXT-GEN GROUND RESISTANCE MONITORING

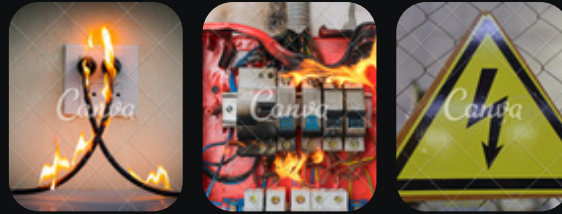
- ✓ Smart Tech, Real Impact
- ✓ Future-Ready Systems
- ✓ Trusted by Professionals

- **Compact, Cost-Effective, and Reliable**  
Built for harsh environments, it's affordable, easy to install, and ready for Industry 4.0 .
- **Non-Invasive Real-Time Monitoring**  
Measure earthing resistance without breaking the circuit—no shutdowns, no digging.
- **Smart, Scalable, and IoT-Ready**  
Easily integrate with existing systems for predictive maintenance and remote monitoring.



"Step into the future of electrical safety with a solution built for smart infrastructure and **Industry 4.0**"

# Why Choose us?



## Real-Time & Accurate Monitoring

Continuously tracks earthing resistance using microcontroller-based logic for precise, reliable results—no manual testing required.



## Non-Invasive & Safe Operation

Measures without disconnecting the earth wire, ensures uninterrupted and secure performance.



## Local & Remote Access

View readings on-site onboard LCD or via RS485 Advanced Communication method.



## Scalable & Cost-Effective

Easily expandable for multiple pits, offering a low-cost, high-efficiency solution that cuts labor and maintenance costs.



## Durable & Field-Ready Design

Compact and weather-resistant, perfect for industrial, residential, and remote environments.



## RS485 Communication

Fully compatible with IoT platforms for real-time alerts, cloud logging, and integration with RS485 Communication Protocol.

# Bring Home Cutting-Edge Earthing Tech!



Future - Proof Your Infrastructure



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# Bye Bye!

**To manual checks!**

Unlike traditional methods that require manual effort, wire disconnection, and periodic testing, our Smart Earth Resistance Meter offers a fully automated, non-intrusive, and real-time monitoring solution.

No manual effort, no delays — just smart, automated monitoring that saves time, manpower, and money.