CorroZoa

Handheld Zero Ohm Ammeter for Corrosion Monitoring

Fast, Reliable Field Readings for CorroWatch and CorroRisk Sensor Systems

STRUCTURAL HEALTH MONITORING

The Reader Behind the Readings.

CorroZoa is a handheld Zero Ohm Ammeter designed for measurements from CorroWatch and CorroRisk corrosion monitoring sensors. A compact, battery-powered Zero Ohm ammeter, CorroZoa CorroZoa is a handheld Zero Ohm Ammeter designed for measurements from CorroWatch and CorroRisk corrosion monitoring sensors CorroZoa is a handheld Zero Ohm Ammeter designed for measurements from CorroWatch and CorroRisk corrosion monitoring sensors.

Designed for durability and ease of use, CorroZoa supports both quick spot-checks during routine inspections and scheduled, programmed data collection for ongoing condition monitoring programs.

Features & Benefits

- **One instrument, full sensor compatibility** – works directly with both CorroWatch and CorroRisk probes, giving inspection teams a single tool for new and existing structure monitoring programs.
- **Built for the field** – rated to IP65 for harsh environments, with a compact, lightweight design that's easy to carry and operate on site.
- **Faster inspections** – measures up to six channels of corrosion current, potential, and temperature simultaniously in a single session, reducing time spent at each inspection point.
- **No data left behind** – FLASH memory stores up to 1,024 measurements for later review and transfer.
- **Scheduled, automated readings –** Features programmed measurement intervals that allow the device to log data autonomously, supporting long-term condition tracking without constant manual technician intervention.
- **Simple data handoff –** measurements transfer via USB to companion software, making it straightforward to build a structure's condition history over time.
- **Complete turnkey package** – Shipped as a full kit including the instrument, breakout cable, software, and wall charger, making the system ready to deploy out of the box, and the rechargeable battery provides approximately 60 hours of battery life.

Applications

CorroZoa is used wherever CorroWatch or CorroRisk sensors are installed, supporting both routine field inspections and long-term, programmed condition monitoring.

Typical applications include:

- Periodic inspection of bridge decks, piers, and marine structures
- Condition checks on parking structures and tunnels
- Scheduled monitoring programs for critical infrastructure
- Verification readings during commissioning of new CorroWatch installations
- Field data collection in support of asset management reporting

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How It Works

CorroZoa connects to the electrodes of a CorroWatch or CorroRisk sensor through a breakout cable. The instrument measures the small corrosion current flowing between each anode and the reference electrode, along with potential and temperature at each measurement point.

CorroZoa measures the corrosion current, potential, and temperature associated with connected CorroWatch or CorroRisk sensors. These measurements can then be evaluated as part of the corrosion monitoring program.

Readings can be taken on demand during a site visit, or collected automatically on a programmed schedule for ongoing monitoring. All measurements are stored in the instrument's FLASH memory and transferred via USB to a connected computer, where they can be reviewed and added to a structure's condition history.

Technical Properties

Property	Specification
Dimensions	Approx. 85mm × 155mm × 32mm
Enclosure Rating	IP65 (Dust-tight and protected against water jets)
Measurement Channels	Up to 6 channels (Corrosion Current & Potential) + Temperature
Measuring Range	-16 to 0 $\mu A/cm^2$
Memory	Non-volatile FLASH memory; up to 1,024 measurements
Power & Battery	Rechargeable; approx. 60-hour operational lifetime
PC Interface	USB connection with dedicated companion software

Related Products

- CorroWatch Corrosion Monitoring Probe (for new construction)
- CorroRisk Corrosion Monitoring Probe (for existing structures)

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Talk to an Expert

Vector Corrosion Technologies provides full specification support, installation guidance, and system design assistance for the CorroZoa Zero Ohm Ammeter.

Contact your regional Vector representative to discuss your project, request sample specifications and drawings or arrange a technical presentation for your team.

Vector Corrosion Technologies

Vector-Corrosion.com

Canada

Winnipeg, MB
(204) 489-9611
info@vector-corrosion.com

United States

Lexington, KY
(813) 830-7566
info@vector-corrosion.com

Deer Park, TX
(204) 489-9611
info@vector-corrosion.com

Columbia, MD
(204) 489-9611
info@vector-corrosion.com

Middle East

Dubai, UAE
+971 50 659 7322
infome@vector-corrosion.com

Australia

Redhead, NSW
+61 497 249 868
infoau@vector-corrosion.com

United Kingdom

Cradley Heath, UK
(44) 1384 671 400
infoeu@vector-corrosion.com

Indonesia

Nusa Tenggara Barat
+62 8213 7777798
info@vector-corrosion.com

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