

CorroZoa – Zero Ohm Ammeter



Introduction

The CorroZoa is a data logging Zero Ohm Ammeter designed for compatibility with Force's CorroWatch and CorroRisk chloride monitoring probe systems.



The CorroZoa will measure half-cell potential, corrosion current, and temperature. The unit can either be used manually or automated and left as a data logger.

Features

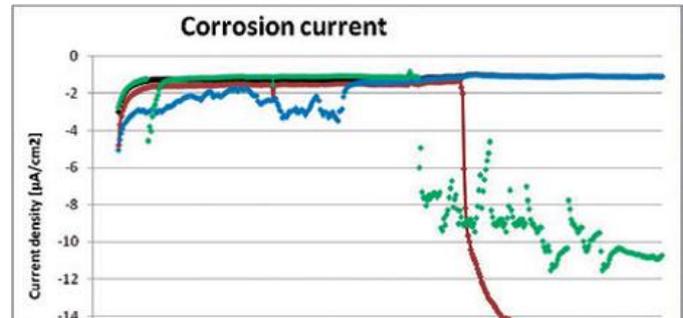
- Unique battery-powered instrument for measuring low corrosion current
- Can be pre-set for automated measurement and data logging of up to 6 carbon steel electrodes
- Registers connect values of potential and temperatures
- Measuring results are transferred via USB
- Measuring channels
 - 6 probe corrosion current/potential
 - Temperature
 - Log up to 1024 measurements
- Designed for harsh environment (IP 65)
- Battery lifetime approx. 60 hours

Custom Solutions

PCTE can also provide custom termination ladders or enclosures to make collecting data from multiple probe locations trouble free.



Corrosion Current



The graph above illustrates data collected from five electrodes. The Corrosion current is the electric current density at a particular electrode compared to a reference electrode, and is a direct measure at the rate at which the corrosion reaction is proceeding.

Half-cell Potential

Half-Cell potential measurements are the potential difference between a reference electrode and the mild steel electrode of a corrosion probe. This value in millivolts relates to the probability that the electrode is corroding, but cannot be used to determine the corrosion rate.

About PCTE

PCTE have over 30 years experience in the measurement and testing of concrete. With experience in research, consulting and construction they are able to assist you in reviewing the issues and developing solutions. PCTE can provide more than just the equipment. They can provide leading technical support for your business.

Other Equipment

The full Force range of equipment is available for corrosion investigation and monitoring of new and existing structures, including half cell and corrosion rate mapping equipment, chloride probes and manganese dioxide reference electrodes.

We also represent JRC, Sensors and Software and IDS Ground Penetrating Radar.