

SensCorr™

Combined Corrosion Monitoring ER, LPR and ECN



A modular corrosion meter in accordance with Internet of Things

The main objective for corrosion monitoring in the industry is measuring the performance of cooling and boiler water related to corrosion inhibitors. The SensCorr measures Electrical Resistance (ER), widely used in oil and gas, and Linear Polarization Resistance (LPR) and Electrochemical Noise (ECN). For LPR the SensCorr meets the standard ASTM G59. But also metal loss, conductivity and pitting behavior are given through 4 channels of the HART Loop converter.

The interface (the HART Loop Converter) transfers 4 parameters:

1. Electrical Resistance (ER) with metal loss in micrometer.
2. LPR with corrosion rate in mm/year. ASTM G59
3. Pitting Index according to ASTM G199.
4. Conductivity in Ohm.cm.

Upon choice other parameters can be transmitted as well.



Item	Description
Measuring principle	Combined Electrical Resistance and Linear Polarization Resistance and Electrochemical Noise with a built in programmable potentiostat.
Standard interface	Built in memory for download with an USB cable. Power with a battery or USB cable.
Optional interface 1	4-20 mA HART with Pepperl + Fuchs HART Loop Converter. Power 24 Volt via 4-20 mA loop.
Optional interface 2	Radio transmitter for the 'stand alone version' via G4 GSM to a server. Power with a solar panel and a rechargeable battery.

