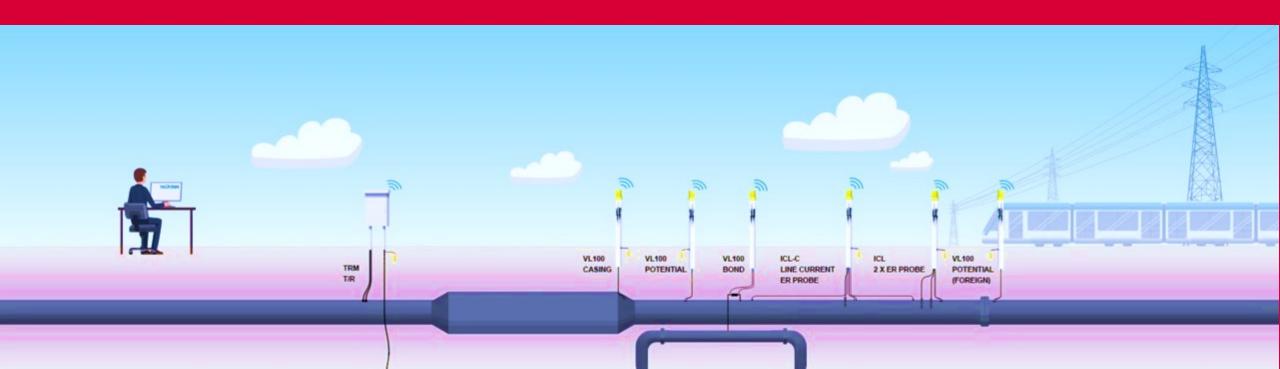


External Corrosion Monitoring_



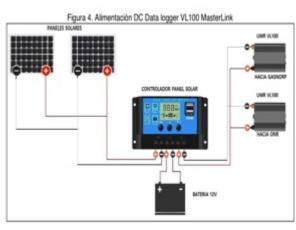


Product: ER Probes_

- 1. The probe simulates a coating defect. Measuring the electrical resistance of the exposed coupon element and a protected reference element rates the specimen by using simple mathematical algorithms.
- 2. The simultaneous recording of the corrosion rate and electrical fingerprints enables efficient analysis of, for example, interference conditions. Measuring all parameters (corrosion rate, AC/DC potentials, AC/DC current densities, and propagation resistance) on the same metal surface ensures that all interacting chemical and electrochemical reactions are part of the analysis.

UMR Tipo I_





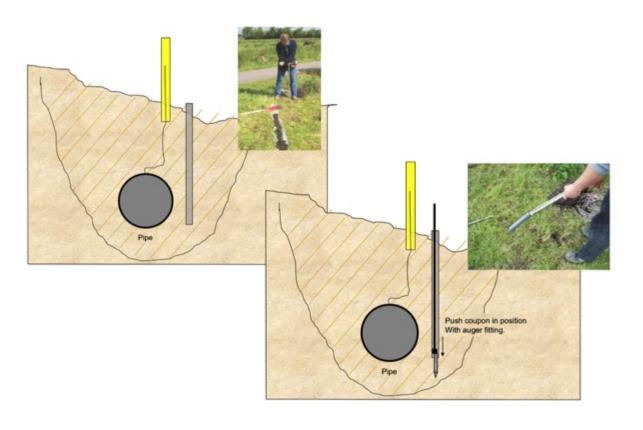
What's included?_

✓ Potential ON

What's included?_

- ✓ UMR
- ✓ Battery
- ✓ Solar Power







UMR Type II_

- ✓ Corrosion Rate
- ✓ Potential OFF
- ✓ IR Compensated Potential
- ✓ AC or DC current density
- ✓ Difference in resistance over time

What's included?_

- ✓ UMR
- ✓ 1 ER specimen
- ✓ CSE Reference Electrode
- ✓ Solar Power + Battery



UMR Type II Characteristics _

- 1. Corrosion rate: the highest resolution enabling corrosion diagnostics
- 2. Coupon Measurements: AC/DC Current Densities, Polarized Potentials, Propagation Resistance
- 3. Built-in certificate data no paperwork required
- 4. Engineering design: especially suitable for AC or DC interference corrosion monitoring
- 5. Temperature Compensation Heat Sink Reference Element Patented Compensation
- 6. Rugged design available for soil/high temperature/offshore





Class: ER Probes_





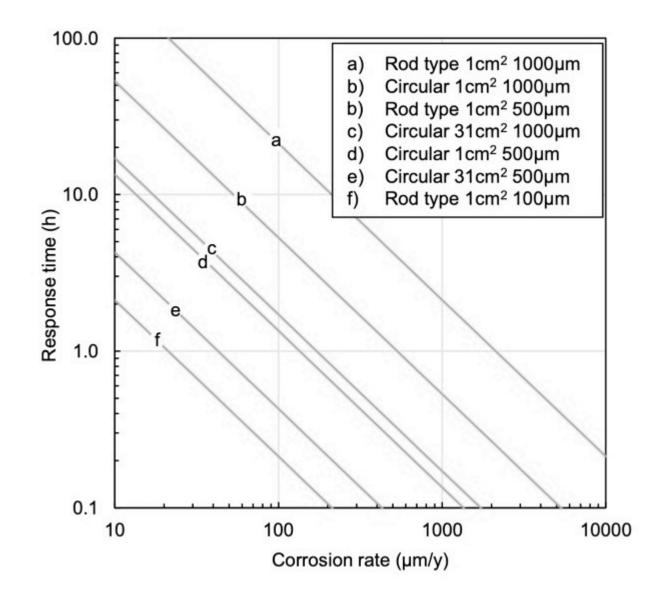


Measuring all parameters (corrosion rate, AC/DC potentials, AC/DC current densities, and propagation resistance) on the same metal surface ensures that all interacting chemical and electrochemical reactions are part of the analysis.



Sensitivity_

- Response time of a specimen to different corrosion rates. This sensitivity should be divided by the attenuation factor based on the length of the cable (below).
- For example, the specimen recommended for AC interference monitoring will be able to detect a corrosion rate of 25 µm/y (1 mpy) within 24 hours.





RMU Rectifier_







Synergistic remote monitoring units for on/off potential inspection campaigns that allow a better understanding of the behavior of the PC system.



RMU Rectifier_



Capacity_

- ✓ Current Measurement and DC Output Voltage
- ✓ Alarm for no AC power
- ✓ Rectifier or door opening alarm
- ✓ Potential On/Off
- ✓ PC System Interrupt (Cycling)

What's included?_

- ✓ UMR
- ✓ Enclosures & Accessories
- ✓ CSE Reference Electrode
- ✓ Solar Power + Battery

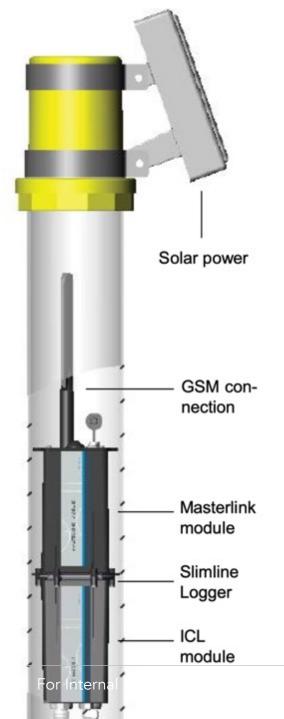




Remote Monitoring Integration & Compatibility





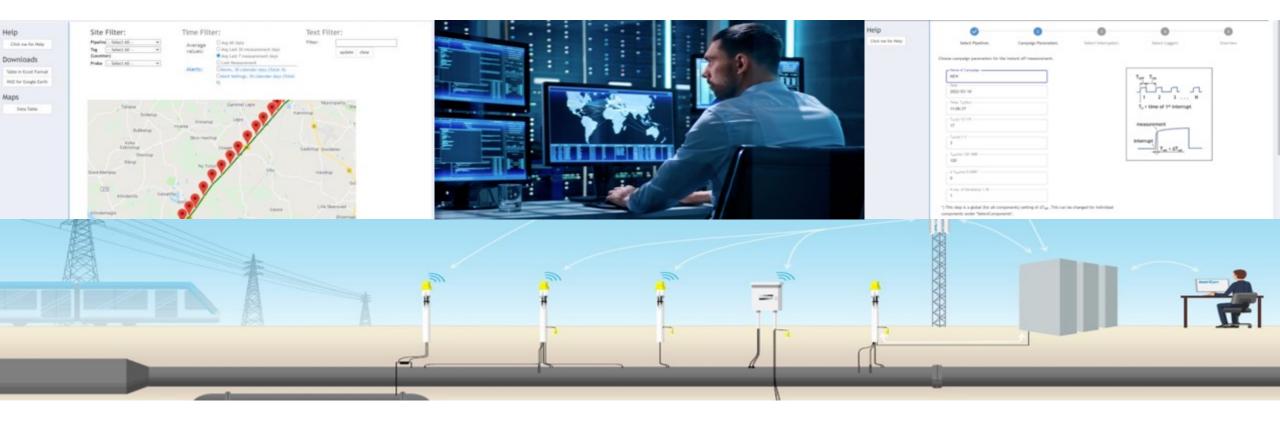


Product: Remote Monitoring_

- 1. GPS or GPRS monitoring units
- 2. Directly compatible with ER specimens
- 3. Allows ON/OFF potentials, current densities and corrosion rate to be taken
- 4. Powered by long-lasting battery backup with additional internal solar source option
- 5. Cavity Test Stations for UMR Location



Data: Comunication Ecosystem_





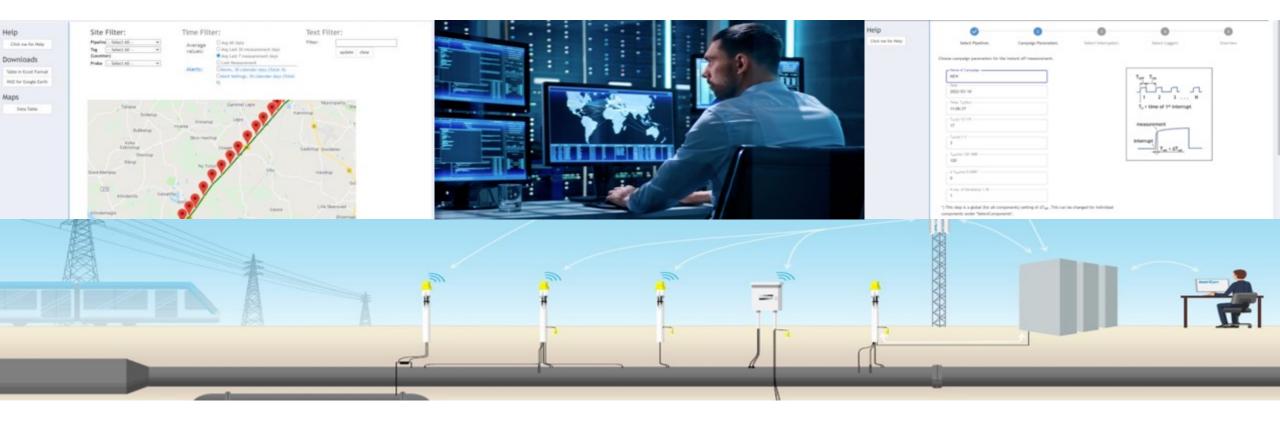
Advantages_

- 1. Location in remote or problematic areas
- 2. Remote operation of the URPC
- 3. Minimizes excavations
- 4. Operation with any permanent CSE
- 5. Long-lasting
- 6. User-friendly platform that integrates all systems





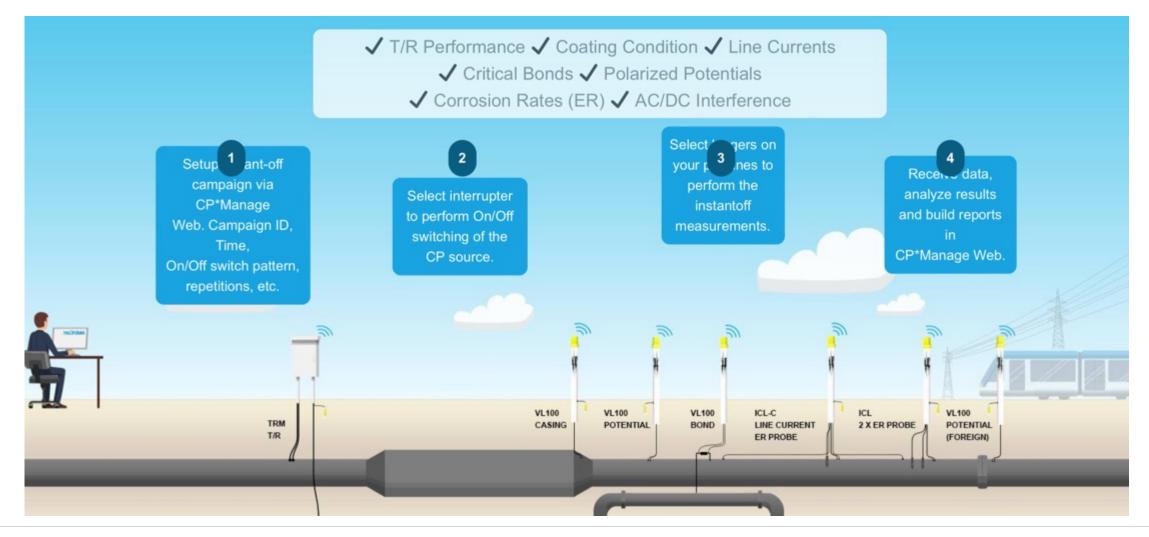
Data: Comunication Ecosystem_







Remote Monitoring: Types_







Units: Offer

ER PROBE

-2 specimens per point are considered, with their facilities for installation on existing pole



Added Value
- Installation of permanent
reference electrode for
measurement of ON and OFF
potentials in coupon
(additional value in economic
offer



Measurement
Base Offer: Corrosion Rate
Additional: Corrosion Rate,
On/Off Potentials, AC & DC
Current Densities, AC
Potentials









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