

Polatrak Application Chart

Fixed Monitoring Systems

Instrument	Ag/AgCl Potential	Zn sw Potential	Current Density	Anode Current	Polarization Rate	Design Life (yrs)	Notes
DR-2	Y	Y				25	Rugged dual element reference electrode
DR-2 CD	Y	Y	Y		Y	25	DR-2 with current density sensor
V-String		Y				25	Low-cost retrofit zinc reference electrode
MA-1				Y		25	Standard monitored anode
MA-1F				Y	Y	25	Flush-mount monitored anode
MA-1P				Y	Y	25	Monitored pipeline bracelet anode

Portable CP Probes

Instrument	ROV Interface	Diver Held	Surface Deployed	Contact Probe	Proximity Probe	Depth Rating (m)	Deep C Interface	Notes
Deep C Meter	Y			Y		3000		Dual readout for ROV II
ROV II	Y	Y		Y	Y	3000	Y	Potential vs Ag/AgCl
DC II			Y		Y	300		Potential vs Ag/AgCl
CP Gun		Y		Y		600		Potential vs Ag/AgCl
Prox Elec		Y			Y	600		Potential vs Ag/AgCl

Topside and Subsea Data Management

Instrument	Description
Handrail Monitoring Panel	Simple, low-cost, on-site test point for Polatrak monitoring systems
SCADA Interface	Powered panel with additional conditioners for PLC interface
Satellite Monitor	Internet-based satellite monitor; can be interrogated worldwide
SunStation Subsea Readout	Permanent deep water subsea readout, powered by solar panels and ROV lights

Contact Details

Deepwater Corrosion Services Inc.

10851 Train Court, Houston, TX 77041

Telephone +1 713 983 7117

Fax +1 713 983 8858

Email sales@stoprust.com

www.stoprust.com

Local Exclusive Distributor

Deepwater Corrosion Services Inc.

Cathodic Protection Monitoring Systems and Instruments

POLATRAK®



DEEPWATER

www.stoprust.com

Polatrak Overview

Deepwater Corrosion Services Inc. is the world's leading supplier of cathodic protection monitoring systems and instruments to the offshore oil and gas industry. Our overall depth of experience is unparalleled in the industry. Our Polatrak systems and instruments are noted for their rugged durability, proven reliability, and guaranteed performance. We offer a range of state-of-the-art equipment designed to measure cathodic protection potential, current, and current density. Polatrak fixed systems and portable CP probes offer monitoring solutions for all types of situations.

Fixed Systems vs Portable CP Probes

Fixed Systems

- Ideal for areas of difficult access -ROI quickly realized in reduced subsea inspection costs
- Design optimization ROI is almost immediate

Portable CP Probes

- Provides only 'snapshot' data
- Allows thorough investigation if access is available
- New tools can measure current, potential, and current density
- Works well as a part on an in-service inspection plan for floating systems

CP Monitoring

Why Monitor?

- Verify CP performance
- Verify design criteria (particularly in new applications)
- Ensure regulatory compliance
- Extend inspection cycles
- Improve/simplify asset integrity management

What to Monitor?

- Potential: is the structure protected?
- Current Density: is the structure using more or less cathodic protection than the design basis?
- Anode Current: how long will CP last?

Where to Monitor?

Areas of difficult access

- Center-wells vs CP
- Conductor areas

Areas of high risk

- Critical joints or other structures
- Materials susceptible to hydrogen damage

Areas where track record is limited

- New offshore development areas
- New corrosion control schemes

Remote locations

- Expensive or inadequate subsea inspection

Instruments

1 Deep C Meter

The Polatrak Deep C Meter is a self-contained CP monitoring instrument, designed for deep water ROV applications. The dual readouts display CP potentials from the ROV II Probe.

2 ROV II CP Probe

The Polatrak ROV II is Deepwater's most popular probe for general offshore CP surveys. It works both as a proximity probe and as a tip-contact probe. Dual Ag/AgCl elements; all parts are replaceable.

3 CP Gun

The CP Gun has twin elements and dual ultra-bright LED readouts, providing an unparalleled level of accuracy and redundancy. It is rated for use down to 1000 feet (300 meters), with a power source on a switch, allowing the battery to last a full diving season.

4 DR-2 Dual Reference Cell

The DR-2 is a durable 20-year CP monitor that allows initial structure polarization to be tracked and verified, eliminating the need for costly post-installation inspections; it also reduces the scope of interim sub-sea CP inspections.

5 DR-2 CD Polarization Monitor

The DR-2 CD is a unique combination of the original DR-2 and the CD-1 current density monitor, measuring both polarization potentials and current density with a single device.

6 MA-1 Monitored Anode

Polatrak anode current monitors can be applied to any type of galvanic anode (stand-off, flush-mount, pipeline bracelet, or retrofit sled). The unique isolating sections make Polatrak monitors the most reliable on the market. There are no temperamental insulating flanges, and no expensive insulated joints.

7 V-String General Purpose Reference Electrode

The V-String is a low-cost zinc reference electrode designed for offshore platform and pipeline monitoring. The rugged construction and ease of installation make this an ideal tool for CP retrofit monitoring, or to supplement other Polatrak CP monitoring systems.

