

DEEPWATER

DR-2™ Dual Reference Electrode Cathodic Protection Monitoring



The DR-2 is equipped with one Ag/AgCl and one Zn reference, for unparalleled accuracy.



DR-2 to be retrofitted to a subsea pipeline, attached to two RetroClamps



DR-2 in production; the casing is black Delrin on a carbon steel mount.

The DR-2 utilizes both Zn & Ag/AgCl reference electrodes for accuracy and longevity.

The Polatrak® DR-2 is a rugged, dual-element reference electrode designed for permanent attachment subsea to provide cathodic protection potential data. A standard DR-2 is designed to last for 20 years. The DR-2 has a machined black Delrin body, which houses the electrodes and enhances the impact resistance of the assembled instrument. The DR-s can be attached to any type of new offshore structure, including platforms, floaters, drill rigs, and all types of subsea equipment. In many cases, it can also be retrofitted to existing assets (see picture on left).

The sintered Ag/AgCl reference electrode provides very accurate potential data to monitor polarization of the structure; the heavy-duty zinc electrode element provides a more reliable long-term electrode. Available remote control monitoring systems are standard on new structures; Polatrak systems give you the option to tie into communication lines, providing remote cathodic protection monitoring over the existing infrastructure.

Reduce the need for subsea inspection

Structures with permanent cathodic protection monitoring systems can be inspected subsea much less frequently, as they will have the ability to perform interval surveys with a simple voltmeter.

Pre-installed

The rugged design allows the DR-2 to be welded reliably to the structure and wired to the surface at a minimal cost, prior to a structure's deployment.

Reliable, rugged cable

The double steel wire-armored cable can be free routed on offshore structures with simple bands or cable clamps, thus saving cost of conduit or duct systems.

Optional current density monitor

The DR-2 CD combines the standard DR-2 with an integrated current density monitor (a large metal fin). The reference electrodes together with the current density monitor provide polarization data.