

# DEEPWATER

## CATHODIC PROTECTION MONITORING MA-1™ MONITORED ANODE

### Monitoring anode performance can help operators predict overall CP system life.

The Polatrak MA-1 provides a reliable, accurate method for monitoring anode performance and consumption. It can be hardwired to the surface or connected to a SunStation subsea readout, making it suitable for any depth.

The MA-1 allows accurate logging of the total number of ampere-hours delivered by the anode. The time-consuming acts of cleaning an anode and visually estimating consumption (an inherently unreliable method) are no longer required. The unique design of the monolithic isolators provides 100% life-cycle reliability; there are no insulated flange joints or other unreliable components. The double-armored wires used on all Polatrak instruments ensure full life-cycle performance.

Polatrak monitors have an excellent record of success and are found on more offshore structures worldwide than any other fixed-monitoring system. They've been applied to all galvanic anode types, including platform anodes, flush-mount anodes and onshore and offshore pipeline bracelets.

### The cathodic protection "fuel gauge"

The MA-1 allows operators to accurately measure anode consumption and remaining life without interference with the anode. The data for a handful of anodes will give general trends for the entire cathodic-protection system.

### Direct verification of CP design criteria

Verification of anode performance allows corrosion engineers to evaluate not only the design of a particular system, but the design methodology in general.

### Designed for any type of anode

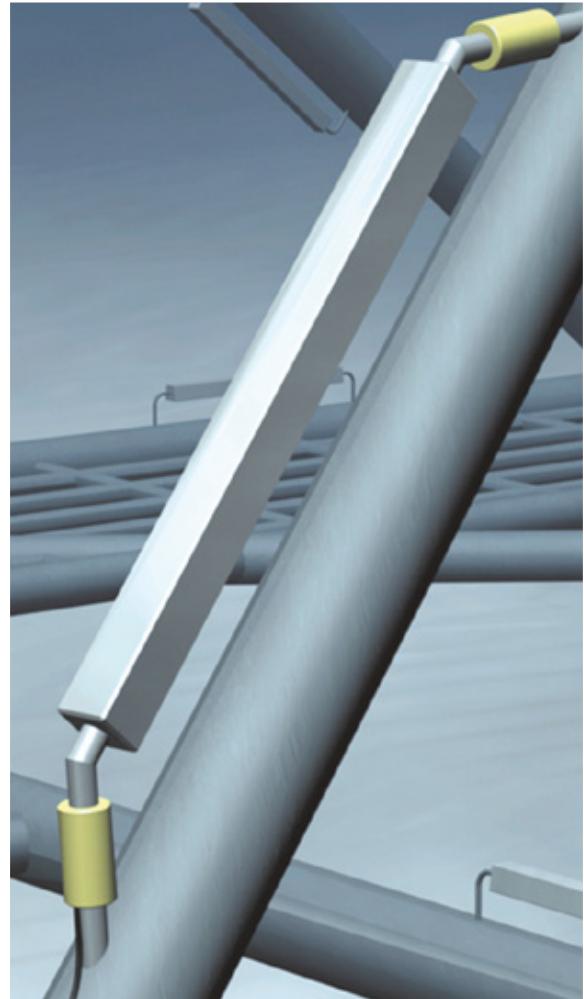
The MA-1 system is available for all types of major sacrificial anodes (platform anodes, pipeline bracelets, etc.), and can be used offshore or onshore on buried pipelines. The system is also available without an anode, allowing it to be attached to any required anode in the fabrication yard.

**Offshore platform jackets** - The standard MA-1 monitor is designed for new structures, including those where sacrificial anodes are used for cathodic protection. Monitored anodes can be hardwired to the surface or connected subsea (if necessary) to a SunStation subsea readout.

**Offshore and onshore pipelines** - With only slight modification, the Polatrak monitor can be attached to any type of pipeline bracelet anode for use on offshore or onshore buried pipelines (as pictured in Alaska at right). The anodes are hardwired to monitoring panels above-ground or above-water.

**Custom anode applications** - Since Polatrak anode monitors are available without anodes, they can be applied to any anode of the operator's choice.

More info at [www.stoprust.com](http://www.stoprust.com)



MA-1

Monitoring anode consumption allows an operator to predict CP system life.



ALASKA

MA-1 monitor installed on a bracelet anode in Alaska.