



## SMARTPOD™ ANODE POD WITH CATHODIC PROTECTION MONITORING

**The monitoring displays are powered by solar cells that provide readings when the ROV headlights shine on them.**

The Smartpod is an aluminum anode system retrofitted to subsea equipment to simultaneously provide both cathodic protection and CP monitoring data. The Smartpod is an enhanced version of our standard Retropod™ anode system, equipped with on-board monitoring provided by V-String reference electrodes and a Sunstation subsea readout. The Smartpod can display its own performance on the readout whenever an ROV is near.

Each Smartpod has enough aluminium anode material to protect approximately 25,000 square feet of coated steel for up to 20 years. Using Retroclamps, an operator can attach these anodes to multiple subsea structures and protect entire fields with only a few pods. The electrodes attached to the clamps ensure that each protected structure (trees, well heads etc.) is also reliably monitored. Smartpods are easily installed with any work-class ROV system. The Sunstation readouts are all located centrally on the pod structure, creating a convenient monitoring station for an ROV to visit upon future inspections.

The Retroclamp is patented technology, developed at Deepwater and unavailable elsewhere. The Smartpod connects to the pipeline it protects by using two armored cables attached to the Retroclamp. The contact tip of the clamp that creates electrical contact with the pipeline can be fitted with a soft drill bit, allowing it to penetrate concrete weight coats. The Retroclamp is diver and ROV-friendly; the floating plate on the top of the clamp ensures a strong and constant connection that will not damage pipes. The ease with which it is installed makes the Retroclamp incredibly cost-effective compared to underwater welding or other attachment methods. For a buried pipeline, only part of the pipeline must be visible for the diver to install a Retroclamp.

The built-in monitoring system literally replaces cathodic protection surveys. Any time an ROV is near the SmartPod, it can take a cathodic protection potential reading with its light and camera. Outside of regular required intervals, there is no need to schedule an ROV survey ever again.



### SUNSTATION OPTIONS

The SunStation on each Pod can house individual (top) or grouped readouts (bottom) for the electrodes

