

NEW OR RETROFIT

CATHODIC PROTECTION & MONITORING SYSTEM

CPguardian™

For optimum cathodic protection and monitoring, Aquatec has developed *CPguardian* - a unique and cost-effective ICCP system that protects and monitors your offshore structure. *CPguardian* is ideal for extending the life of ageing assets, potentially delaying decommissioning. It provides options for structure protection when original galvanic systems have been depleted. The fully integrated system has closed-loop control, which provides impressed current cathodic protection and monitoring of the resulting protection levels in real time.

ADVANTAGES

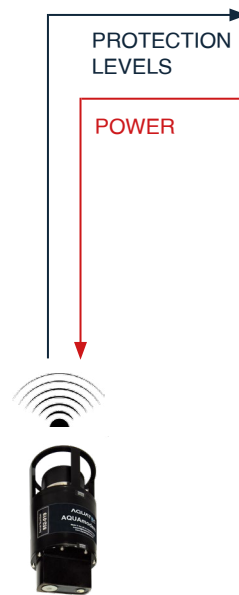
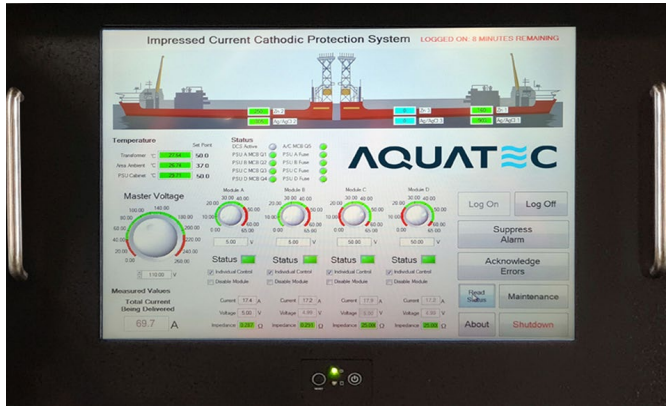
- Optimising protection levels - not putting the installation at risk by over or under-protecting it.
- Calibrate models by resolving uncertainties in the model inputs.
- Benefit from knowing precise protection levels in all seasons and sea states at fixed, known locations.
- Protection levels automatically adjust to seasonal variations.
- Protection levels adjust automatically to changing transient or permanent conditions, e.g. new construction or vessels alongside.
- CP levels are measured at multiple points on the structure and transferred topside in real time.
- Customisable dashboard style control system with logging, visualisation and DCS alarms if required.
- Each system is tailored to your asset, to provide you with the best possible solution for your offshore structure.



CONTROLLED PSU | MANUAL AND AUTOMATIC CONTROL

In automatic mode, the PSU will adjust the current supplied to your ICCP anodes to achieve the desired protection potentials using the feedback from the AQUAmodem CP real-time monitoring units installed across the structure.

If manual control is preferred, the operator can set the protection level and current required to achieve it.



ICCP ANODE SKID
& AQUAmodem 500

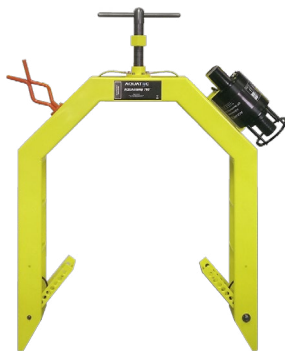


POWER SUPPLY UNIT
(PSU)

AQUAmodem® 500CP | ACOUSTIC POTENTIAL/CURRENT DATA COMMUNICATION

The AQUAmodem® 500CP is Aquatec's pioneering, acoustic communications device for the measurement and transmission of potentials or currents. The AQUAmodem® 500CP offers an economical and reliable alternative to costly cables, and ensures consistent, periodic fixed point monitoring. Battery life is tailored to project requirements and is typically >15 years.

The AQUAmodem® 500CP reduces the need for manual dip cell measurements and enables monitoring in all seasons and weather conditions. It provides continuous assessment of sacrificial or ICCP anode performance in remote sections of subsea structures, with real-time data delivered topside or logged subsea. The system can be configured for diver or ROV installation, offering flexible deployment options.



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