Subsea Corrosion Monitoring

cathodic protection survey equipment
Measuring hidden potential

Buckleys manufacture a range of subsea corrosion monitoring equipment specifically designed to determine the corrosion status of underwater structures such as piers, jetties, pipelines and ships’ hulls.

The BathyCorrometer® is a diver-held unit which will measure the corrosion potential at specific contact points. Although the readings are visible to the diver, our Surface Display Unit can display readings onboard a ship or diving platform.

For Remotely Operated Vehicles (ROVs), the UCP1A contact probe or UCP1B proximity probe can be easily installed to carry out unmanned corrosion surveys.

Simple surveys of marine structures can also be carried out by the use of a Marine Survey Kit.
BathyCorrometer® Pro’

Since the 1970s, the BathyCorrometer® has been the leading instrument for subsea corrosion monitoring surveys — and with good reason.

Renowned for its rugged, dependable construction; the BathyCorrometer® has built a reputation for reliability and its ability to handle harsh environments whilst taking accurate measurements.

The latest version of the industry-standard BathyCorrometer® brings a host of improvements designed to make it simpler than ever to carry out subsea cathodic protection surveys and enhance the BathyCorrometer’s reliability even further.

What’s in the kit?
• Buckleys BathyCorrometer® Pro’
• Flexible lanyard with carabiner connection
• Buckleys CalChecker Pro’
• 6 x hardened stainless steel probe tips with spanner
• Battery charger
• Silicone grease
• Zinc and magnesium test blocks
• 3 x K-series reference cells
• Instant seawater (salt) solution
• All contained in fitted carrying case with instruction manual

Marine Survey Kit

The Marine Survey kit has been designed to include all items required to easily carry out corrosion surveys of marine structures.

The half-cell is weighted to help maintain its position. The half-cell is connected to the cable spool by a 75m cable. Two leads connect the spool and the structure to the multimeter. In use, the multimeter is connected to the structure and the cable spool. The half-cell is then lowered into the sea to the desired position. The multimeter displays the corrosion voltage.

What’s in the kit?
• Weighted silver/silver chloride half cell
• 75m cable on reel (other lengths available on request)
• Multimeter
• Leads for connecting with reel and multimeter

Surface Display Pro’

The Surface Display Pro’ connects to the BathyCorrometer® Pro’ via an umbilical cable and remotely displays readings to top-side users.

Each Surface Display Pro’ is “paired” to a specific BathyCorrometer® to ensure the readings obtained are as accurate as possible.

Umbilical cables are made to user-specified lengths and can be purchased separately.

What’s in the kit?
• Surface Display Pro’ unit
• Mains power supply lead
• Calibration leads
• Comprehensive instruction manual

NOTE: A 2-core umbilical cable is also required, lengths to suit customer requirements
Also available

Buckleys also manufacture underwater corrosion monitoring probes, for use either in contact or proximity with the structure, as well as calibration kits, K-series reference cells, adaptor leads, zinc and magnesium test blocks and a range of accessories and consumables for subsea use.

H28  BathyCorrometer Pro’ Calibration Kit  
(6004-0031)

H4  UCP1A Contact-Type Probe  
(6004-0039)

H5  UCP1B Proximity-Type Probe  
(6004-0043)

H107 Plastic-Bodied K-Series Reference Cell  
(6004-0005)

H8  Zinc Test Block  
(6004-0052)

H9  Magnesium Test Block  
(6004-0053)

H30  100m Umbilical Cable for Surface Display Pro’  
(6004-0035)  
Other lengths are available, please contact us for details

H23B Marine Reference Cell with 25m Cable  
(6004-0026)

H6  Screw-In Silver/Silver Chloride Half-Cell  
(6004-0051)

Through our worldwide network of dealers; we can offer comprehensive support, testing, repair and calibration facilities; no matter where you are.

For more information on our subsea product range and our network of dealers, call our sales team on +44 (0)1303 278888, email sales@buckleys.co.uk, or visit www.buckleysinternational.com