

**BUCKLEYS**

MANUFACTURERS OF SPECIALIST TEST EQUIPMENT

# 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<sup>®</sup> 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 test block
- 3 x K-series reference cells
- Instant seawater (salt) solution
- All contained in fitted carrying case with instruction manual



## BathyCorrometer® CalChecker Pro'

The CalChecker Pro' has been developed to provide BathyCorrometer® users a quick and convenient method of verifying the accuracy of their measurements.

This compact, hand-held unit connects to the BathyCorrometer® Pro' via the socket at the base of its handle and gives a stabilised voltage which the BathyCorrometer® Pro' displays. Provided this voltage is within a predetermined range, the electronics are in good working order and do not require recalibration before use.

The CalChecker Pro' is fully backward-compatible and can be used with older BathyCorrometer® models.



## 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

# Upgrade to Pro'

The BathyCorrometer® Pro' Upgrade Kit converts the Mk5 BathyCorrometer's internals to the same specification as the latest BathyCorrometer® Pro'.

Converting your older Mk5 BathyCorrometer® with this kit will provide you with a BathyCorrometer® which displays the correct negative voltage reading, has a clearer display, improved battery and charging system as well as the latest electronics and the reassurance that your BathyCorrometer® has a new lease of life and will provide excellent service for years to come.

The BathyCorrometer® Pro' Upgrade Kit contains all items required and should only be installed by trained, Buckleys-certified technicians.



## Also available

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



**BathyCorrometer Pro' Calibration Kit**  
(6004-0031)



**UCP1A Contact-Type Probe**  
(6004-0039)



**UCP1B Proximity-Type Probe**  
(6004-0043)



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



**Zinc Test Block**  
(6004-0052)



**UCP1A/UCP1B Calibration Kit**  
(6004-0053)



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



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



**100m Umbilical for Surface Display Pro'**  
(6004-0035)  
Other lengths available, contact us for details

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](http://www.buckleysinternational.com)



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