Accessories

1 Contact Probe
Small mountable Contact Probe, complete with Silver/Silver Chloride screw-in half cell, 3 meter cable and certificate.

2 Proximity Probe
Small mountable Proximity probe, complete with Silver/Silver Chloride screw-in half cell, 3 meter cable and certificate.

3 Marine Survey Kit
Comprising weighted Silver/Silver Chloride half cell with 75 meter cable, cable spool and multimeter c/w operating instructions and a Certificate of Inspection and Conformity (Other length cables are available).

4 Marine Reference Cell (Silver/Silver Chloride) with 12.5 meter cable.

5 Glass K-Series Reference Cell (Laboratory Type).

6 K-Series Reference Cell
Plastic screw-on. For calibration of the Bathycorrometer and UCP Probes.


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ISO 9001 BUREAU VERITAS Certification

BINDT THE BRITISH INSTITUTE OF NON-DESTRUCTIVE TESTING

BUCKLEYS

Corrosion Monitoring Equipment

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Bathycorrometer®

Description

The Bathycorrometer® is a well-proven inspection tool for measuring the levels of corrosion on sub-sea structures. Light and easy to use, this hand-held unit enables divers to obtain accurate readings of the corrosion potential levels of structures at the point of contact.

The first Bathycorrometer® unit went into rigorous North Sea service in 1971. Customer satisfaction with the performance of Bathycorrometers® has led to specified use worldwide. It can also be connected to a Surface Display Unit (SDU), which provides a top-side verification of readings.

Features

- Illuminated digital display
- Facility for adding remote monitoring
- Single handed and light
- Simple to use and maintain
- Robust and inert housing
- Suitable for use in deep water – up to 350 metres
- Easily replaceable half cell
- Supplied with calibration certificate
- Kit includes Zinc and Magnesium test blocks

Specifications

BCM Unit		BCM Charger	
Operating depth:	Up to 350m (Pressure tested to 600psi / 42bar)	Supply voltage:	110V to 240V A.C. 45-55 Hz
Display:	3½ digit LCD backlit 0.001 to 1.999V DC	Input power:	3.5 VA maximum
Accuracy:	0.05% typical (±1 count)	Output voltage:	10.5V D.C. (off load).
Input impedance:	>10MΩ	Output current:	30mA ± 2mA
Operating temperature range:	0 to 30°C	Charging indicator	Green LED
Temperature stability:	±100 ppm/°C		
Storage temperature range:	0 to 50°C		
Operating time on full charge:	50hr +		
Reference Electrode:	Silver/Silver Chloride (Ag/AgCl)		
Accuracy Ag/AgCl:	≈ +250mV VS SHE		
Temperature coefficient:	-0.6mV °C		
½ Cell effective life:	1 to 2 years		
Contact with structure:	Hardened, stainless steel probe		
Output/input socket for:	Charging, reference test, remote readout and on/off		
Weight in air:	2.5Kg		
Weight in water:	0.85Kg negative buoyancy		
Instrument size:	100mm diameter x 275mm long		
Carrying case size:	450mm x 340mm x 220mmv		

Buckleys Bathycorrometer, battery charger, 6 x hardened stainless steel probe tips, Probe tip spanner, Silicone grease, Zinc and Magnesium test blocks and comprehensive instruction manual, all contained in a fitted carrying case.

Surface Display Unit

Description

The Buckleys Surface Display Unit (SDU) has been designed to provide a remote method of verifying the corrosion voltage readings of the Buckleys Bathycorrometer. The SDU (which would typically be on board a ship or on land.

SDU unit, mains supply lead, calibration leads from BCM to SDU and full instruction manual.

Specifications

Power supply:	110/120V AC or 220/240V AC
Power consumption:	8VA
Display:	4 digit LED
Accuracy:	0.05% of reading
Resolution:	1 in 9999
Input resistance:	24
Temperature stability:	50 ppm of range / oC
Speed of response:	Display = 2.5 / second
Dimensions:	15.5cm Wide x 8.5cm High x 26.5cm Deep
Weight:	1.6 kg
Operating temp:	-20 to +50oC
Storage temp:	-40 to +85oC
Humidity:	90% rh max at 40oC, non-condensing

The Calibration Kit

Description

The Calibration Kit has been created to provide all the necessary components to enable customers to verify the accuracy of the readings on the Buckleys or Roxby Bathycorrometers so that "in-house" calibration certificates can be issued.

The process requires two areas to be checked. The electronics should be tested using the BCM Checker. Readings on the Bathycorrometer should be 0.000 with the checker switched off and 1.990 with the checker on.

Specifications

BCM Checker		K-Series Reference Cell	
Power supply:	9 volt battery (PP3)	Electrical Connection:	Screw fit
Battery type:	Alkaline MN1604	Output:	+208mV @ 25°C vs SHE
Output voltage:	1.990 Volts	Accuracy:	±5mV @ 25°C vs SHE
Accuracy:	+/- 0.01%	Temperature coeff:	-0.64mV per/°C
Temperature coeff:	30ppm/°C	Temperature range:	0 - 40 °C
Temperature range:	0-30°C	Working life:	Up to 1 year
On indicator:	Green LED	Dimensions:	155mm long x 25mm diam.
Low battery indicator:	Red LED	Packed weight	(Calibration kit): 1.2Kg
Connection:	5 pin plug & probe clip	Dimensions	(Packed): 26cm x 14cm x 30cm