



MANUFACTURERS OF SPECIALIST TEST EQUIPMENT



# Long Range Flexible Probe

## Instruction Manual

Please read this manual in conjunction with the  
BathyCorrometer® Pro' Operating Instructions (5830-0036)  
before using this equipment

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## Description

The Long-Reach Flexible probe is designed to allow the inspection of corrosion potentials on the propeller shafts within the A-bracket bearing of vessels equipped with a “poker gauge” hole as detailed on RAN Drawing 138100-25120-K-0002 (Shaft Strut Bearing Arrangement).

The probe is designed to be fitted to a Buckleys BathyCorrometer® (Buckleys part number 5500-0101) in place of the normal tip and tip shroud. The necessary tools are provided as part of the kit, and spares are provided in the spare parts kit (6004-0112)

The probes comprise a stainless-steel tip, a flexible tube, and a body which seals, by means of the provided O-ring to the BathyCorrometer® nosecone. The tip is provided with a small radius, to avoid potential damage to the shaft, but still make satisfactory contact. The tip and inner body are electrically connected by means of a low resistance flexible link, and the flexible link is made from thick-wall silicone tubing.

All materials are corrosion resistant and are chosen for robustness and long life.

## Technical Data

|                         |                   |
|-------------------------|-------------------|
| Overall length of probe | 394mm             |
| Useable length of probe | 304mm             |
| Weight of probe         | 125g              |
| Operating depth:        | Not exceeding 10m |

## Appearance



The probe is provided with flats to suit a 19mm AF spanner, for installation and removal.

## Unpacking

The probe is sealed in a polythene sleeve. Dispose of the sleeve in accordance with local regulations.

## Installation

Please read these instructions in conjunction with Buckleys Document 5830-0036, "BathyCorrometer® Pro' Operating Instructions". This document only provides specific information for the Flexible Long-Reach Probe (5700-0660).

Unscrew & remove the pointed Probe Tip (if fitted) and the white Probe Cone from the front of the BathyCorrometer®.

Apply silicone grease to the base of the Flexible Long Reach Probe, and in particular, ensure that the O-ring is both greased and correctly seated in the groove.

Fit the probe to the BathyCorrometer® and tighten by hand until the O-ring enters the red nosecone of the instrument. Continue to tighten by hand, and when resistance is felt, use the spanner to ensure that the probe is secure.

There is no need to tighten the probe fiercely, and the torque should not exceed 2Nm.

Verify the probe function as described on page 10 of the BCM manual, using the Zinc block provided.

Following use, it is recommended to wash the BathyCorrometer® in fresh sea-water. The flexible probe should be removed, dried and stored in the case.

## Maintenance & Long-Term Storage

The probes are simple and contain no serviceable internal parts. They should be rinsed and dried after use. It is advisable to ensure the threaded hole is clean, and this, and the O-ring, may be greased with Silicone Grease.

The probe tip may be cleaned with abrasives if it shows signs of corrosion.

If the body or flexible tube show signs of leakage, cracks or other damage, the probe should be discarded.

Probes that remain in their sealed packages are expected to last for many years.

## Disposal Information

The probe contains stainless steel, silicone rubber, silicone grease, PVC, nitrile rubber and copper. Where suitable facilities & skills are available, it should be dismantled for recycling.

# Contact details

**Manufacturer:** Buckleys (UVRAL) Ltd

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# Distributor details

# Product registration

Thank you for choosing a Buckleys product, we are sure it will provide you with many years of reliable service.

Please register this product via Buckleys' website and download the Warranty Registration Certificate.

Register your product in 5 minutes

Once your product is registered, you will receive the following benefits:

- **FREE** annual service & calibration reminders by email
- **Latest** industry news relating to your product
- Be the **first** to hear about our new products

We strive to improve the quality of our products and service.

Registering your product helps us monitor overall quality of our products, service and dealer network. Additionally, if we ever need to contact you regarding your product, we are able to do so immediately.

We will also send you annual service/calibration reminders by email to help ensure your product is always in perfect working order.

To register your product, simply visit:

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

Complete the online form and click on SUBMIT.

