

CP and UT Meter Specification

Buckleys Bathycorrometer



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Technical Specifications

Item	Value
Display	0.001 to 1.999v 3½ digit LCD backlit
Accuracy	0.05% typical, instrument calibration accuracy +/- 1mV +/- count
Battery charger	14hr standard 110-230v AC
Input impedance	10M Ohms
Operating temperature range	0 to 30°C, temperature stability 100 ppm/°C
Operating time on full charge	50hr +
Reference electrode	Silver/Silver Chloride
Multi-function socket	Yes
Weight (Unit only)	In air 2.5Kg, in water 0.85Kg
Dimensions (Unit only)	10cm diam. × 27.5cm long
Dimensions (Carrying case)	44cm × 31cm × 14cm
Packed weight (standard kit)	8Kg
Dimensions (packed)	48cm × 39cm × 27cm



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Features

Accurate 3½ digit LCD display

LED Backlit LCD display

Depth of operation – up to 350 metres

Facility for adding remote monitoring via Surface Display Unit

Single handed and light

Robust and inert housing

Contact with structure by hardened stainless steel probe

Supplied with Calibration Certificate

Applications

BATHY CORROMETERS are used for polarisation, corrosion and interaction surveys, in particular as part of the commissioning check or inspection of production and drilling platforms, underwater pipelines, ships hulls, jetties, piers and other marine works.

Standard Kit Comprises

Buckleys Bathy corrometer

Battery charger

6 × hardened stainless steel probe tips

Probe tip spanner

Silicone grease

Zinc and Magnesium test blocks

Comprehensive instruction manual

Fitted carrying case

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Ultrasonic Thickness Gauge "CYGNUS"

Display Features

2.8" quarter VGA colour AMOLED (320 × 240 pixels)

Large clear thickness measurement (15mm high numbers)

A-Scan display with automatic X axis

Battery level, signal strength, probe type, velocity

Measurement mode and units indication

Battery

Item	Value
Battery	Single 3.6V Li-Ion 8.2 W battery
Continuous operation	11 hours continuous measurement
Battery warning	Low battery warning "alert" message

Measurement Modes

Item	Value
Single Echo	First back-wall echo using Twin Crystal probes
Multiple Echo	Three back-wall echoes using Single Crystal (zero-degree) probes
Coating Compensation	Automatically ignores surface coatings and measures only metal thickness

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Ultrasonic Thickness Gauge "CYGNUS"

Deep Coat

For use with Multiple Echo mode.

Allows measurement to be made through thicker coatings of suitable materials $\frac{3}{4}$ " (20mm).

Probes

Single Crystal Probes

Frequency	Size
2.25 MHz	$\frac{3}{4}$ " (19mm)
2.25 MHz	$\frac{1}{2}$ " (13mm) (standard)
3.5 MHz	$\frac{1}{2}$ " (13mm)
5.0 MHz	$\frac{1}{4}$ " (6mm)

Twin Crystal Probes

Frequency	Size
2.0 MHz	$\frac{1}{2}$ " (13mm × 2) (for cast irons etc.)
5.0 MHz	$\frac{5}{16}$ " (8mm × 2) (standard)