



OceanTools

DigiCP

Digital cathodic potential measurement

The **OceanTools DigiCP** is an *innovative* product that *combines* a traditional CP probe with modern digital electronics.



## Overview

The **OceanTools DigiCP** system may be supplied with either a contact probe or a proximity probe.

Unlike conventional CP systems, the **DigiCP** digitises the analogue CP voltage subsea and transmits it to the surface via a twisted pair in the ROV umbilical or via a data multiplexer.

The subsea unit comprises a contact or proximity probe with a connecting cable plus a subsea housing containing the conversion electronics. Units are available in 1000m and 3000m depth ratings. RS232 and RS485 data is simultaneously available from the **DigiCP**.

On the surface, the data is displayed on a simple Windows based application (as shown below). The data may also be outputted to a data logger or to, for example, an **OceanTools** video overlay unit.





### Key Features

- Supplied with mating tail, transit case and calibration kit (zinc test block, reference electrode cell and adaptor lead)
- Optional T-bar and Springy Fishtail handles
- Simultaneous RS232 and RS485 outputs
- Contact or proximity mode probes
- 1000m and 3000m variants
- Optional TTL output
- Noise-immune



Probe mounted in Springy Fishtail handle

### Specifications

| Subsea Unit             |                          |
|-------------------------|--------------------------|
| Height *                | 80mm                     |
| Diameter *              | 110mm                    |
| Weight in air *         | 0.8kg                    |
| Weight in water *       | 0.25kg                   |
| Depth ratings           | 1000m, 3000m             |
| Input voltage           | 10-36VDC                 |
| Maximum current         | 50mA @ 10VDC             |
| Data transmission       | RS232, RS485 @ 4800 Baud |
| Optional                | TTL Output               |
| * = 1000m rated version |                          |

| CP Probe   |                                  |
|------------|----------------------------------|
| Probe type | Silver/Silver chloride half cell |
| Accuracy   | ±5mV                             |
| Length     | 130mm                            |
| Diameter   | 40mm                             |
| Weight     | 0.26kg                           |