

DigiCP probe

Digital Cathodic Potential Measurement System for ROV



Description	Length	Width	Height	Weight
Pelicase	55 cm	40 cm	25 cm	8 kg

Probe type:	Silver/Silver chloride half cell Accuracy: $\pm 5\text{mV}$ Length: 126mm Diameter: 39mm Weight: 260g
Subsea housing:	Height: 80mm, Diameter: 110mm Weight in air: 0.8kg, Weight in water: 0.25kg Depth rating: 3000m Power requirements: 10 - 36VDC @ 0.5A Data transmission: RS232, RS485 @ 4800 Baud

The OceanTools DigiCP is an innovative product that combines a traditional CP probe with modern digital electronics. The system may be supplied with both Contact and Proximity probes. 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 either a contact probe or a proximity probe with a 3m cable plus a subsea housing containing the conversion electronics. Units are available in 3000m depth ratings. RS232 and RS485 data is simultaneously available from the DigiCP.

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