

Technical datasheet

Polatrak Deep C Meter™3000 AD

General

The Polatrak Deep-C-Meter 3000 AD is designed for rugged service on a work-or-inspection class ROV. The unit is ROV powered and provides continuous visual and digital output. Rated for operation in up to 10,000 feet (3000 m) depth, this system can be used for any inspection. The instrument readout unit can be conveniently mounted anywhere on the ROV, and the probe unit is held in the tee-handle manipulator mount. The Deep C Meter kit includes an ROV II probe, an articulated mount, standard whips and all standard replacement parts.

Specifications

Depth rating 10,000 ft [3000 m]
Operating temp. 1°C to 55°C

Voltage range +2499 mV to -2499 mV

Input resistance 1 G-Ohm

Power supply 24VDC nominal (9-36VDC)

Communication RS 232

protocol

Precision

Data type Continuous ASCII stream

with delimiters

2 data sets per second

24 bit analogue digital

converter

Electrode elements²

ROV-II has two electrode elements which are interchangable to suit specific water environments

Ag/AgCI (Silver/silver chloride)

Material Ag/AgCl with Silver Wire

Core

Dimensions Ø 0.3" x 1.8"

[Ø8 mm x 45 mm]

Accuracy ± 5 mV
Applications Seawater

Cu/CuSO4 (Copper/copper sulphate)

Material Cu/CuSO4 with copper wire

core

Dimensions Ø 0.3" x 1.4"

[Ø8 mm x 36 mm]

Accuracy ± 5 mV

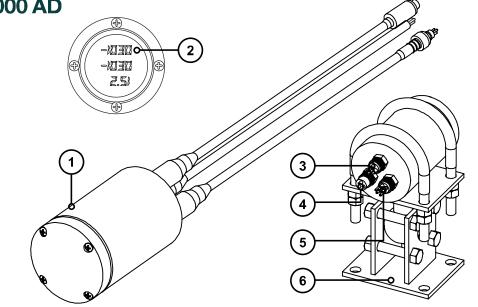
Applications Fresh water / Slightly

brackish water

*Ag/AgCl elements provided as standard

Standard kit components

Offshore storm case, Deep C Meter 300 AD, ROV-II probe, Zn calibration coupon, spare electrode, tips and o-rings. Additional spares and replacements are available upon request.



Overall weights & dimensions

Deep C Meter 3000 AD

Main body

Pressure housing (Item 1)

Material 316 stainless steel
Internal components LED readouts

Lens assembly (Item 2)

Material Clear acrylic

Dimensions Ø 3.5" x 0.9"

[Ø 89 mm x 23 mm]

Seal 2 No. O-rings, 1 No. B/U ring

Attachment 4 No. SS316 retaining screws

Display 3 No. 4 digit 0.4"

[10 mm] ultra bright blue LED display with variable brightness

Meter mount (Item 6)

Material 316 SS

Offshore transit case

 Dimensions
 25" x 20" x 12"

 (W x H x D)
 [635 x 508 x 305 mm]

 Packed weight
 45 lb [9.5 kg]

ROV-III interface (Item 3)

Pin 1 Contact tip
Pin 3 Electrode #2
Pin 2 Electrode #1

EFG probe interface (Item 4)

Pin 1 Unused Pin 2 Electrode #1

Power and data interface (Item 5)

Power bulkhead Micro WET CON MCBH 4M

Pin 1 +24VDC

Pin 2 Ground

Pin 3 RX (RS

Pin 4 TX (RS 232)

ROV-II contact tip (Item 7)

Material Stainless Steel 316 pointed tip

Dimensions 60° point, 0.75" [19 mm]

long, 0.38" [10 mm] A/F

Features Fully replaceable



