

IXYS POLATRAK CP PROBE SYSTEM

CATHODIC PROTECTION
CP PROBE SYSTEM
POLATRAK



Description

The Polatrak ROV II is a compact, self-contained cathodic protection (CP) measurement probe designed for subsea deployment by either ROV or diver. It is used to measure the electrochemical potential of submerged metallic structures relative to a reference electrode, enabling accurate assessment of CP system performance.

The unit incorporates twin reference electrodes to enhance measurement stability and provide redundancy in varying seawater conditions. It interfaces with the Polatrak Deep C Meter, delivering real-time potential readings through dual ultrabright digital displays for clear visibility in low-light underwater environments. The rugged, subsea-rated design ensures reliable operation in demanding offshore conditions.

Typical Operations

- Cathodic Protection Surveys
- ROV-Based Inspection
- Diver-Assisted Inspection
- Touchdown Measurements
- Coating Integrity Assessment
- System Commissioning & Maintenance
- Data Logging (via external meter)

Features

- ROV-mounted or diver-operated
- Twin reference electrodes for stable readings
- Real-time CP potential measurement
- Dual ultrabright digital readout (with Deep C Meter)
- Rugged, subsea-ready design

■ The specification details are illustrative for marketing purpose only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement. Envirent AS, Robotvegen 16, 4340 Bryne, +47 477 77 500, sales@envirent.no

SPECIFICATIONS

IXYS POLATRAK PROBE SYSTEM

Document No.: EVT-13826

Revision: 0

General Technical Specifications

Type	Ixys Polatrak Probe System
Part Number	CP-PROBE-
Dimensions Main Body L x W x H	57 mm x 578 mm x ... mm
Weight in air / submerged	2,9 kg / 0,7 kg
Depth Rating	3000 MSW
Operating Temperature	1°C - 40°C
Voltage Range	0 mV – 1999 mV

Electrode Elements (Silver / Silver Chlorides)

Material	Ag/AgCl with Silver core
Dimensions L x W	45 mm x Ø 8mm
Accuracy	± 5 mV
Applications	Seawater

Electrode Elements (Copper / Copper Sulphate)

Materials	Cu/CuSO4 with copper wire
Dimensions L x W	36 mm x Ø 8 mm
Accuracy	±5 mV
Applications	Fresh water / Slightly brackish water

*Ag/AgCl elements provided as standard

Connection Cable

Materials	Polyurethane sheath
Dimensions	0,56 mm C12
Wire	18 AWG / 3 conductor
Mating Connector	Seacon RMG-3FS

Main Body Specifications

Features	Free-flooding housing
Material	Black Drain
Internal components	Electrode elements, contact tip and a wiring harness
Dimensions	Ø 58 mm x 203 mm

Contact Tip Specifications

Material	SS316 pointed tip
Dimensions	60° Point, 19 mm long, 10mm A/F
Features	Fully replaceable



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Inventory List:

Items listed in Inventory List are delivered with the equipment as standard.
Any additional equipment must be specified upon order.

Item	Description	Total Qty
1.	Zn Calibration Coupon	1
2.	Spare electrode	1
3.	Tips	1
4.	Spare screws	1