

Polatrak CP Gun™



The cp gun is the most user-friendly diver-held Cathodic-protection probe on the market. The cp gun outperforms all other available bathyorrrometer-type devices in Both accuracy and convenience. Longer battery life, interchangeable freshwater /Seawater electrodes and ultra-bright led displays (for limited-visibility conditions) Make the cp gun the most user-friendly diver-held cp probe on the market. The dual electrode elements and readouts combined with a self-calibration Capability make it the most accurate unit offered. Each probe kit comes with a full Complement of spare parts, and replacements are readily available

A single set of disposable alkaline batteries provides up to 150 hours of continuous survey operation, and a convenient on-off switch allowing display only when actually probing provides even longer life. The CP Gun is rated to depths of up to 300 m (~1000 ft), and is designed for situations where a few contact CP readings are required. The unit, like all Polatrak probes, has twin elements and dual readouts, which provides an unparalleled level of accuracy and redundancy.

Specifications

| | |
|--------------------------|----------------------------------|
| Product | Polatrak CP Gun™ |
| Country of origin | USA |
| Manufacturer | Deepwater Corrosion Services Inc |

Guaranteed accuracy

Many common sources for errors are eliminated with the twin element configuration. The dual silver / silver chloride (Ag/AgCl) electrodes provide internal redundancy and on-line calibration, which allows the probe to be reliably tested and serviced in the field.

Season-long battery life

The CP Gun has two standard, replaceable 9V batteries and a convenient switch that allows the probe to be used for the entire dive season without maintenance. Season-long life is unique to the CP Gun. The length of life among similar probes is a fraction of that time.

Rugged construction

The sturdy design of the CP Gun allows easy replacement of worn or damaged parts without having to replace the entire probe. It can be serviced easily in the field, and Deepwater also offers repair services.

Ag/AgCl or Cu/CuSO₄ Electrodes

Interchangeable Cu/CuSO₄ reference elements for the CP Gun probe now allow diver or ROV surveys to be performed in brackish or fresh water rivers and lakes where silver chloride electrodes are not compatible.

Ultra-bright LED readouts

The CP Gun is the only diver-held probe with bright, backlit LED readouts that allows the diver to interrogate CP readings in conditions with low visibility, such as river crossings and brackish-water areas.

General

Polatrak CP Gun is a self-contained, diver-operated cathodic protection meter/probe. The handheld unit allows the diver to probe a submersed structure to determine its electrochemical potential. Features include twin reference electrodes and dual ultra-bright digital readouts.

Electrode elements*

CP Gun has two electrode elements which are interchangeable to suit specific water environments

Ag/AgCl (Silver/Silver Chloride)

| | |
|---------------------|----------------------------------|
| Material | Ag/AgCl with Silver Wire Core |
| Dimensions | Ø 0.3" x 1.8" [Ø 8 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" [Ø 8 mm x 36 mm] |
| Accuracy | ± 5 mV |
| Applications | Fresh water / Slightly brackish water |

Specifications

| | |
|-------------------------|--|
| Depth rating | 1000 ft [300 m] |
| Operating temp | 1°C to 40°C |
| Voltage range | 0 mV to -1999 mV |
| Input resistance | 1 M-Ohm |
| Power supply | 2 No. 9V PP3 alkaline batteries (disposable) |

Standard kit components

Offshore storm case, CP Gun, recovery lanyard, Zn calibration coupon, spare electrode, tips, o-rings, lens screws. Additional spares and replacements are available upon request.

Overall weights & dimensions

| | CP Gun | Offshore storm case |
|-------------------------------|--|--|
| Dimensions (W x H x L) | 3.5" x 9.5" x 16.5" [89 x 240 x 420 mm] | 14" x 22" x 9" [355 x 560 x 230 mm] |
| Weight (Air) | 6.5 lb [2.9 kg] | |
| Weight (Water) | 1.5 lb [0.7 kg] | |
| Packed weight | | 21 lb [9.5 kg] |

Free-flooding housing (Item 1)

| | |
|----------------------------|--|
| Material | Black Delrin |
| Internal components | Electrode elements, contact tip and a wiring harness |
| Dimensions | Ø 3.5" x 6.0" [Ø 89 mm x 152 mm] |

Pressure housing (Item 2)

| | |
|----------------------------|--|
| Material | Black Delrin |
| Internal components | LED readouts, batteries and electronic circuitry |

Lens assembly (Item 3)

| | |
|-------------------|-----------------------------------|
| 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 |
| Fixings | 4 No. SS316 retaining screws |

Handle (Item 4)

| | |
|-----------------|--------------|
| Material | Black Delrin |
|-----------------|--------------|

Power switch (Item 5)

| | |
|------------------------|--|
| Material | Red PVC, allows units to be powered down when not probing |
| Ancillary Items | 1/4" [6.5 mm] nylon rope lanyard Recovery lanyard with float |

Contact tip (Item 6)

| | |
|----------------------------|--|
| Material | Stainless Steel 316 pointed tip |
| Dimensions Features | 60° point, 0.75" [19 mm] long, 0.38" [10 mm] A/F |
| Features | Fully replaceable |

