

Polatrak DR-2 Mini

General

Polatrak DR-2 Mini is a rugged and compact version of the standard DR-2. The dual-element reference electrode is designed for permanent subsea attachment to provide cathodic protection potential data for 30 years in water depths up to 11,500 ft [3500 m].

The DR-2 Mini has a machined black delrin body, which houses the electrodes and enhances the impact resistance of the assembled instrument. The electrode housing is fixed within a compact rigid steel frame, providing multiple attachment/mounting options.

Silver/silver chloride element (Item 1)

Material	Ag/AgCl on solid silver wire Core
Dimensions	Ø 1" x 0.24" [Ø 25 mm x 6 mm]
Weight	0.60 oz [17 g]
Accuracy	± 5 mV

Zinc block element (Item 2)

Material	Zinc (high purity 99.95%)
Dimensions	2.5" x 1.5" x 1" [63 x 37 x 25 mm]
Weight	1 lb [0.45 kg]
Anti-passivation	Embedded carbon steel rods
Accuracy	± 20 mV

Electrode housing (Item 3)

Material	Black Delrin
Dimensions	4.5" x 3.5" x 1.75" [114 x 63 x 45 mm]

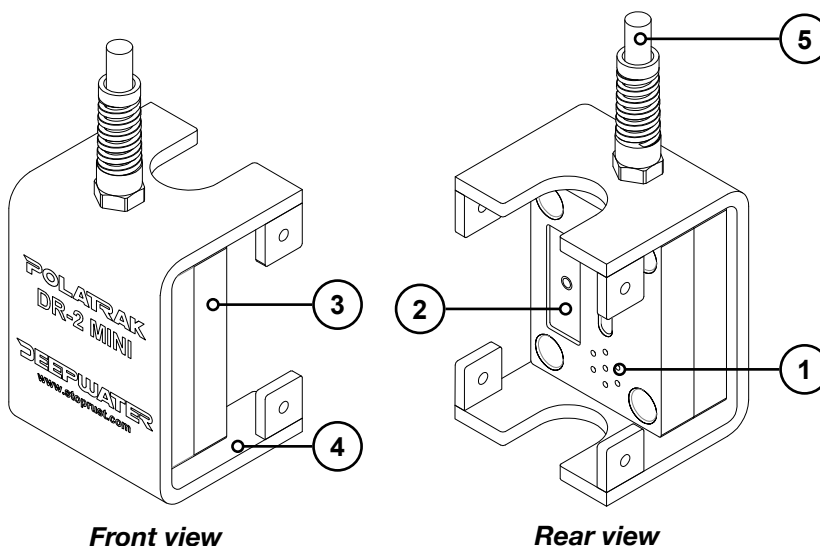
Frame (Item 4)

Material	ASTM A36 carbon steel
Coating	15 mil [380 microns] marine epoxy

Overall weights & dimensions*

Dimensions (W x H x L)	4.1" x 3.9" x 5.8" [103 x 98 x 146 mm]
Weight (air)	5.2 lb [2.4 kg]
Weight (water)	3.8 lb [1.7 kg]

*Excluding cable

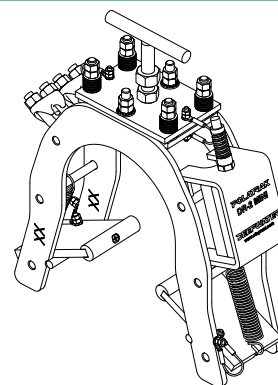


Cable (Item 5)

Type	Polatrak cable
Core	4 x 18 AWG [0.8 mm²] copper
Insulation	Synthetic rubber insulated (RMA)
Outer jacket	Special neoprene sheathed (VMA)
OD	0.40" [10 mm]
Min. bend radius	3" [76 mm]
Strain relief	3/8" NPT spiral strain relief
Weight (air)	0.11 lb/ft [0.17 kg/m]
Weight (water)	0.06 lb/ft [0.09 kg/m]

Mounting

The DR-2 Mini can be welded or bolted to a new structure. The DR-2 Mini can also be installed onto an existing structure using a single RetroClamp (See RetroClamp technical datasheet).



DR-2 Mini mounted