




RetroLink Chart

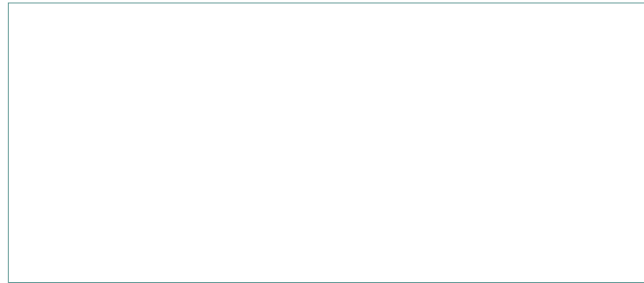
Item	RetroLink 30 ft		RetroLink 60 ft		RetroLink 90 ft	
No. Anodes in Water/Mud		3/2 1/4		8/2 1/9		13/2 1/14
Current Output Amps*		4.4 1.9		9.9 5.3		14.9 5.3
Life at Current (Yr)*		3.5 11		4.1 12		4.5 13
Bare Steel Area Protected (M2)*		88 38		198 72		298 106

*Figures given assume following typical values: Seawater Resistivity 25 Ohm-Cm, Mud Resistivity 75 Ohm-Cm, Cathode Potential (-)0.800 V vs Ag/AgCl, Current Density 50 mA/M2

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Local Exclusive Distributor



Deepwater Corrosion Services Inc.

Versatile, Low-Cost Cathodic Protection Offshore and Inshore

RETROLINK™



DEEPWATER

www.stoprust.com

RetroLink™ Overview

RetroLink provides low-cost, reliable cathodic protection for your offshore, inshore or marine structure with minimal installation expenditures (almost always diver-less). The anode link configuration provides an efficient source of corrosion protection for structures in natural waters.

RetroLinks should always be installed such that at least two anodes trail on the bottom. In this configuration, sea movements are attenuated, and the string will not wrap around the structure.

The wire rope core provides both the electrical conductivity through the anode system as well as a superior mechanical support. The strings are made with up to fifteen anode segments, these may be cut to length and deployed in many ways to provide cathodic protection just where it is needed. If laid in the mud, the system life can be extended to almost ten years.

Key Design Points

The modular concept allows for simple design: simply select zinc or aluminum anode material (depending on the salinity of your water). Zinc anodes are recommended if water is less than 12% full strength seawater (4.2 ppt Cl) for all other applications the aluminum RetroLinks are recommended.

Leader Assembly – Used for above water suspensions use PVC coated wire rope for corrosion resistance. The modular design allows the hang elevations to be easily adjusted in the field.

The weld-on topside suspension assembly can fix to horizontal or vertical members. The isolator can be used to have Links protect offshore risers. Links can be attached subsea using a modified hang-off. This allows the Links to be used to provide large current requirement cost effectively to deeper water structures, where a limited design life is required.



Applications

1 Minimal Offshore Structures

Many offshore structures that sit in less than 85 f.s.w can have the CP replaced very cost effectively using the RetroLink system. The system can be quickly installed with a small topside crew: no diving is required. The system can provide 5 – 7 years of protection.

2 Offshore Wind Turbines

Foundation piles may be placed up to 1 year before the transition structure is installed. During this period RetroLinks can save the day, then can be recovered and redeployed during periods of grid power interruption. For quick, painless retrofit, this is the ideal system.

3 Docks, Harbors and Wharves

RetroLink systems are reliable and easy to maintain using small under-dock access vessels and equipment commonly found around such installations. A simple design guide enables the facility owner to apply adequate levels of cathodic protection following a simple field verification procedure.

Links have been installed to provide cathodic protection to bridge pilings, whether reinforced concrete or steel. The installation is quick and easy.

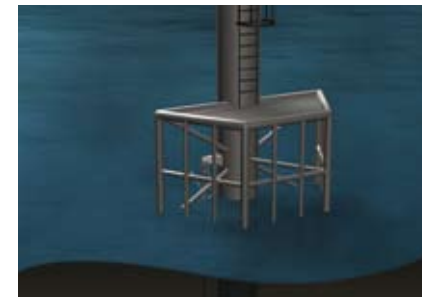
4 Temporary Protection

Vessels in long-term wet storage can be protected cost-effectively by this system. Simple owner verification that submerged parts of the vessel are not corroding is possible with the optional inspection kit.

5 Pipeline Risers

Short infield lines can be effectively retrofitted with RetroLinks, using the host structure as the support and grounding to the pipeline side of the insulating flange.

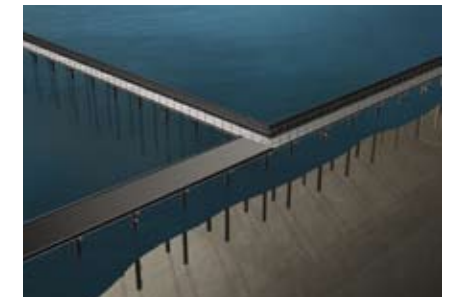
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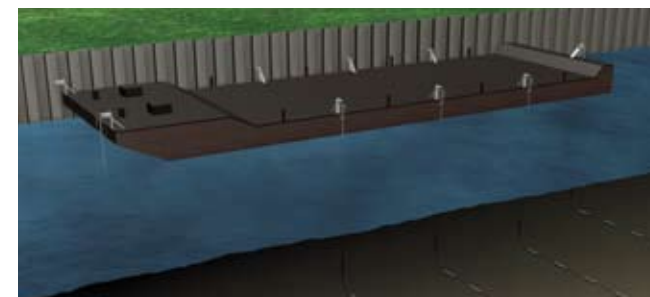
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