

SACRIFICIAL ANODE POTENTIAL & CURRENT MONITORING with ADJUSTMENT TEST-STATION

Test-Station Operation/Description

This sacrificial anode cathodic protection system test-station was primarily designed for the water storage tank industry but can be used in conjunction with pipeline or other sacrificial anode system. The test-station allows for the easy adjustment of DC current being generated within a sacrificial anode cathodic protection system. The test-station is equipped with a digital meter, that when switch activated, displays the DC current or cathodic protection potential readings from any of two reference cells located within the cathodic protection system area of influence. An anode instant off switch is provided to allow for easy momentary interruption of the anode generated current which allows for an IR Drop free potential reading. All this within 1 test-station and it doesn't require portable meters or test-leads to be used.

This Test-Station has the following features:

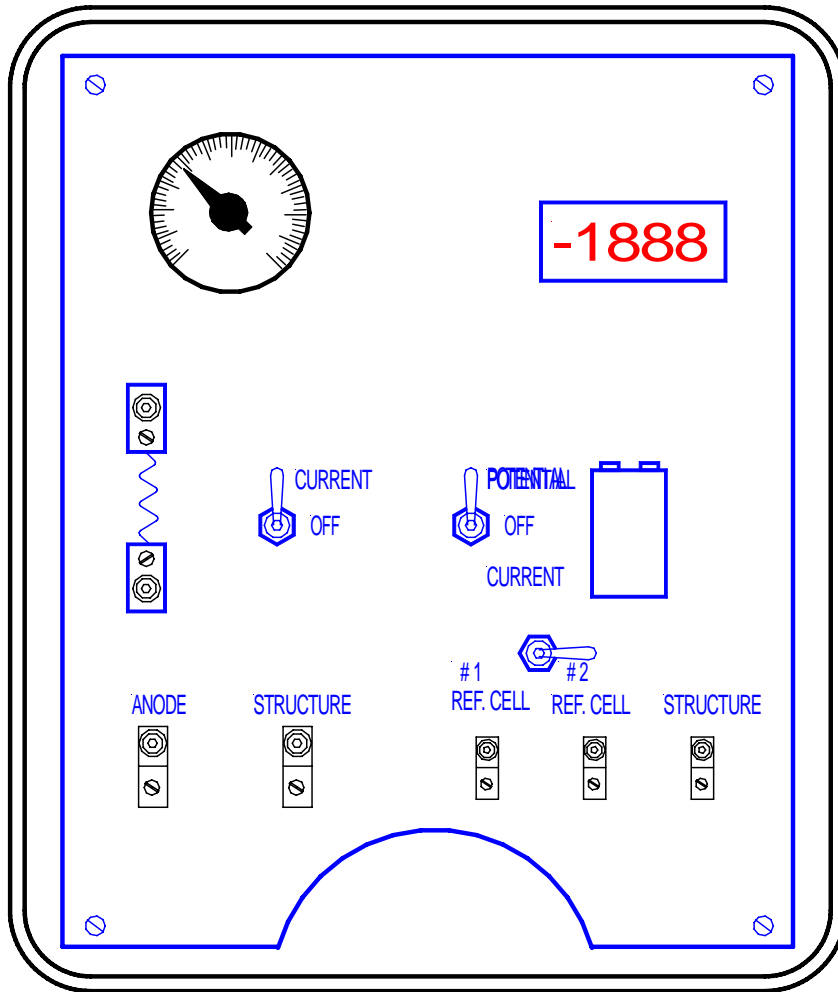
1. Tank to water cathodic protection potential monitoring
 - A. Monitoring is provided via a push to read switch and test results are displayed on a multifunction digital meter.
 - B. A selector switch is provided to allow the selection of either 1 of 2 reference cells that can be located within the water tank at strategic locations per the cathodic protection system design.
 - C. An on/off switch is installed within the anode output circuit. This switch allows the anodes to be momentarily shut off so that an instant off cathodic protection potential can be obtained. This switch is spring loaded to return it to the on position.
 - D. Digital LCD voltmeter has an internal impedance of 10+ megaohms.
 - E. The digital meter can read all standard reference electrodes commonly used.
2. Anode current adjustment and current monitoring
 - A. 100 Ohm, 100 Watt variable resistor (Rheostat) allows for increasing or decreasing the resistance in the anode circuit there by reducing or increasing the anode current provided by the cathodic protection system. Current output results are indicated on a multifunction digital meter to 2 decimal places of an ampere.
 - B. A selector switch is provided to allow the reading of the anode output current operating the cathodic protection system.
 - C. An on/off switch is installed within the anode output circuit. This switch allows the anodes to be momentarily shut off so that an instant off cathodic protection potential can be obtained. This switch is spring loaded to return it to the on position.
 - D. A 2 amp 200 mV shunt is located on the front panel, which allow for easy use of an external voltmeter.

Standard Specifications:

Enclosure: 14" X 12" X 6" NEMA 4X Fiberglass
Instrument Panel: 3/16" Type "XX" Phenolic.
Display: 3.5 Digit LCD +/- 0.1 % Accuracy
Rheostat: 100 Ohm 100 Watt with scale in %
Shunt: 2 Amp 200 mV Holloway block style
Battery: 9 VDC Alkaline
Labeling: 1/16" Lamicoid Fully Engraved
Operating Temp: Ambient -10 ° to +40 ° Celsius

Manufacturer: IRT Integrated Rectifier
Technologies, Inc.
Edmonton, Alberta, Canada





ITEM: Water Storage Tank Test Station for Sacrificial Anode (Passive)
Cathodic Protection Systems
MODEL No. CTBF_x-1/2-AAWXH-100-100 (Test Station)