Ref-Check VPR
Voltage Potential Restoration

Easy to Use | Accurate | Advanced Technology

Secure Accurate CP Readings With the Ref-Check VPR

Eliminate False or Low Structure-to-Soil Potential Readings

Cathodic Protection (CP) solutions require accurate voltage potential or structure-to-soil readings. The Ref-Check VPR is the next step in the Ref-Check product line made to overcome false or low potential readings from a compromised cathodic protection reference electrode (CPRE).

The Ref-Check VPR can take accurate readings from a compromised CPRE. This eliminates the need for the CPRE to be replaced. In addition, the Ref-Check VPR can confirm good contact-to-earth resistance of a portable CPRE and/or CP coupon.

Ref-Check VPR & Digital Multimeter

The Ref-Check VPR works in conjunction with a standard digital multimeter (DMM) via the included dual banana plug cord. When connected to the DMM, the Ref-Check VPR remains out of the circuit until the "Press to Read" button is engaged. This allows a CP technician to leave the Ref-Check VPR connected to the DMM during normal CP testing.

When engaged, the Ref-Check VPR increases the DMM input resistance from 10 million ohms to approximately 5 billion ohms, making it over 500 times more sensitive. The allows the ability to obtain higher measurement accuracy.

Features

- **Fully solid-state**
- **Rugged and lightweight**
- **Single button operation**
- **Built-in battery check**
- **Under 3-second response time**
- **Built-in accuracy verification**
- **Compact size: 4.7" x 3.0" x 1.2"**
- **Measuring range: +/- 5 volts DC**
- **No third-party calibration needed**
- **ABS enclosure with silicone protective cover**
- **Long-life battery provides over 50,000 reads**

Advantages

- **Provides a true potential reading**
- **Eliminates false potential readings**
- **Reduces operational costs caused by inaccurate readings**

Return on Investment

The Ref-Check VPR provides an immediate return on investment. Accurate potential readings from a compromised stationary CPRE can eliminate the need for its replacement or other costly CP solutions.

Call Farwest to Order Your Ref-Check VPR Today!

FARWEST CORROSION CONTROL COMPANY

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Understanding the Ref-Check VPR and Measuring Voltage Potential

"Meter Loading" Can Result in Structure-to-Soil Inaccuracies

All DMMs will impose a load (referred to as "meter loading") on a CPRE. This load affects CPRE accuracy, even under the best conditions. Most professional grade DMMs have 10-million ohms input resistance. While it may seem high, when used to measure very sensitive (high resistance) circuits, such as a compromised (due to age or lack of moisture) CPRE, the meter imposes a load on the circuit that can result in a very high structure-to-soil potential error.

The Ref-Check VPR integrates reliable, medical grade, electronic technology. When used with modern DMMs, it provides a voltmeter sensitivity of over 5 billion ohms input resistance. This exceptionally high input resistance virtually eliminates meter loading to restore an accurate potential reading.

Accurate Readings from a Compromised CPRE with Ref-Check VPR

The Ref-Check VPR can secure an accurate reading from a compromised CPRE that previously recorded errors as high as 90%. For example, if a pipeline with a stationary CPRE has historically provided a reading of -1.000 volts and suddenly provides a reading of -0.600, a cathodic protection issue would typically be suspected. Yet, the CPRE could be drying, producing an inaccurate potential reading. By using the Ref-Check VPR, an accurate reading (-1.000 volts) would be possible.

Product Details

Part Number	**04-32052**
Enclosure	**ABS enclosure with silicone rubber cover**
DMM Connection	**Professional grade, 18" stacking banana jack cord**
Warranty	**Lifetime against defects in materials and workmanship**
Instructions	**Included**

About Farwest Corrosion Control Company

Farwest Corrosion Control Company is an industry pioneer and leader in comprehensive cathodic protection and corrosion control services and related products. Cathodic protection and corrosion control services include engineering, technical consultation and cathodic protection installation. The firm also distributes and manufactures products for cathodic protection and corrosion control.

Founded in 1956, the firm remains privately held and family owned and is a Certified Woman Owned Business. Farwest is headquartered in Downey, CA, has nine regional operations and over 175 employees nationwide.

Prevent Inaccurate CPRE Potential Readings. Order Your Ref-Check VPR today.

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