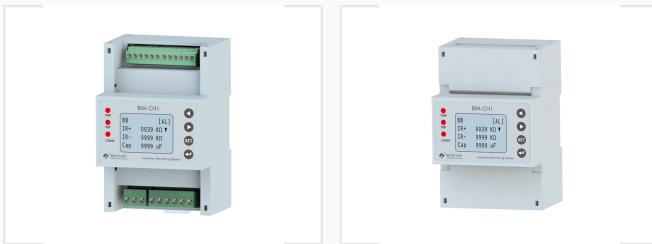


# DC Insulation Resistance Monitor

This device monitors the insulation resistance of DC systems up to 1000V. It provides real-time monitoring of positive and negative pole insulation resistance to ground, unaffected by DC voltage fluctuations.



## ADDITIONAL IMAGES



## Overview

### Advanced DC Insulation Monitoring

The BIM-CH1 is designed for continuous, real-time monitoring of insulation resistance in ungrounded DC systems. By utilizing both balanced and unbalanced bridge methods, it effectively monitors insulation resistance to ground and system voltage. This device provides early detection of insulation faults, helping to prevent equipment damage and ensure operational reliability in critical power systems.

## Technical Specifications

### Working Principles

- Unbalanced bridge method (for insulation resistance to ground)
- Balanced bridge method (for voltage value to ground)

Insulation Monitoring Range	OK $\odot$ ~ 1M $\odot$
DC System Voltage	100V ~ 1000VDC

## Features & Functionality

### Core Features

- Adaptive capacitance to ground
- Automatic device self-test
- DC voltage reverse connection alarm
- Password protection
- Selectable NC or NO relay operation

### Real-time Metrics

**0.039 k $\Omega$**   
IR+

**9999 k $\Omega$**   
IR-

**9999  $\mu$ F**  
Capacitance

### Communication

RS485, MODBUS RTU

### Temperature Sensor Support

Yes