

INSULATION MONITORING DEVICES

Comprehensive Insulation Monitoring for ungrounded (IT) systems



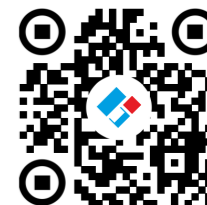
CHONG QING
BLUE JAY TECHNOLOGY
CO.,LTD



<https://www.cqbluejay.com/>

Tel: +86-023-67628702 Mail: sales@cqbluejay.com

Add: 1802, BUILDING 2, NO. 88, JIANXIN EAST ROAD,
CHONGQING, 400020, CHINA



BIM SERIES IMD

Insulation Monitoring Devices (IMDs) are key components used to continuously monitor the insulation condition of unearthed (floating) systems. By detecting insulation faults at an early stage, IMDs help improve system safety, reliability, and operational continuity.

- Nominal system voltages: AC, DC, or AC/DC up to 1000 V;
- System types: Single-phase AC, Three-phase AC, and DC systems;
- System leakage capacitances: up to 20 μF ;
- Response ranges: 1 k Ω to 30M Ω , depending on device model;
- Adjustable alarm thresholds and response delays;
- LED indication and relay alarm output;
- Communication: RS485 Modbus RTU/ optional Canbus;
- Compliant with IEC 61557-1/ 61557-8 standard;

Model	BIM-4MS	BIM-CH1	BIM-M1000
Application	DC System	DC System	AC/DC System
Power supply	10-30Vdc	10-30Vdc	20-60Vdc
Nominal system voltage	100V~1000Vdc	100V~1000Vdc	0~1000Vdc
Response value	1K Ω ~10M Ω	1K Ω ~10M Ω	0~30M Ω
System leakage capacitance	$\leq 5\mu\text{F}$	$\leq 5\mu\text{F}$	$\leq 20\mu\text{F}$
Communication	RS485/ Modbus RTU	RS485/ Modbus RTU	RS485/ Modbus RTU, Optional CANbus/ Proprietary
Mounting	DIN rail	DIN rail	DIN rail
DI/ DO	1DI/ 1DO	2DI/ 1DO	2DI/ 2DO
Alarm function	2* virtual alarms	8* virtual alarms	8* virtual alarms
Local display	NO	YES	YES

Insulation Monitoring Device utilization at every IT power supply system:

- Healthcare
- Manufacturing plants
- Traction systems
- Automation systems
- Control and safety circuits
- Photovoltaic systems
- UPS, battery systems
- Mining, Heavy industry
- DC application

BIM-4MS



BIM-4MS COST-EFFECTIVE DC IMD

- Bridge circuit principle
- Designed for 100–1000V DC systems
- Cost-effective design without local display
- RS485 Modbus RTU remote control
- 1 digital output (DO) and 1 digital input (DI)

BIM-CH1



BIM-CH1 ADVANCED DC IMD

- Bridge circuit principle
- Designed for 100–1000V DC systems
- High definition LCD for parameter display
- Open-circuit detection function
- SOE event logging optional
- 2 digital outputs (DO) and 1 digital input (DI)

BIM-M1000



BIM-M1000 UNIVERSAL AC/DC IMD

- Active signal injection principle
- Designed for 0-1000V AC and DC systems
- Cost-effective design without local display
- 2 digital outputs (DO) and 2 digital inputs (DI)
- Standard RS485 and optional CANbus interface