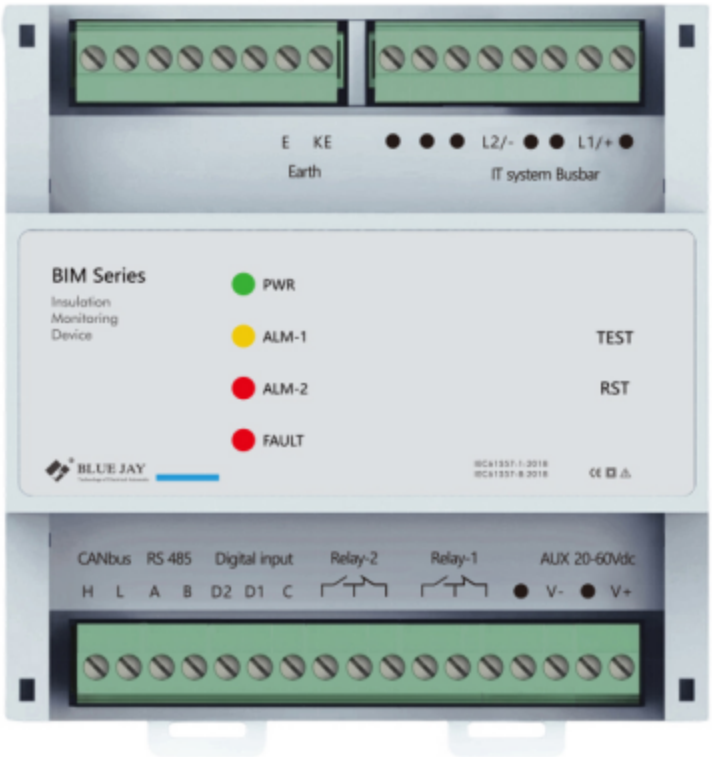
BIM-M1000
Insulation Monitoring Device

User Manual



Version: 1.13

Revision: 2026.11

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Read me

When you use BIM-M1000, be sure to read this user manual carefully, and be able to fully understand the implications, the correct guidance of operations in accordance with user manual, which will help you make better use of BIM-M1000, and help to solve the various problems at the scene.

1. Before turning on the power supply, be sure that the power supply within the provisions of the instrument;

2. When installation, the current input terminal must non-open, voltage input terminals must Non-short circuit;

3. Communication terminal (RS485) is strictly prohibited to impose on high pressure;

4. Be sure the instrument wiring consistent with the internal system settings;

5. When communicating with the PC, instrument communication parameters must be consistent with the PC.



- **Please read this user manual carefully**
- **Please save this document**

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1.- SUMMARIZE

The BIM-M1000 adopts signal-injection measurement technology for continuous insulation resistance monitoring in unearthed AC/DC IT systems up to 1000Vac/dc. It supports multi-level insulation alarms, flexible threshold configuration, and DO outputs for insulation fault alarm and coordinated protection, enhancing system safety and reliability.

The BIM-M1000 complies with IEC 61557-1:2018 and IEC 61557-8:2018 standards and is application for AC/DC IT systems, battery energy storage systems, electric vehicles, and DC charging facilities. Support RS485/ Modbus RTU communication and optional CANbus interfaces, the device can be easily integrated into host computers or remote monitoring systems.

Feature

- Insulation monitoring of unearthed AC/DC system;
- Measure single-pole insulation fault in DC system (DC+ to earth and DC- to earth);
- Measurement system-to-ground insulation fault in AC system (L1 and L2 to earth);
- 8 Virtual Alarms with Flexible 2 DO Assignment;
- Alarm signaling via LEDs and alarm relays;
- Complies with IEC 61557-1 and IEC 61557-8;
- Automatically adapt to system Y capacitance <20μF;
- Programmable 2DI/ 2DO;
- Voltage over-limit alarm function;
- Up to 8 configurable alarm functions;
- DC offset monitoring function;
- Supports manual/automatic reset of fault and alarm information;
- Supports RS485/ Modbus RTU communication;
- Optional CANbus communication interfaces;

Application

- AC and DC IT power distribution systems;
- Industrial power and automation;
- Battery packs and energy storage systems;
- Electric vehicles and transportation;
- Renewable energy generation systems;
- DC charging stations for electric vehicles;

2.- TECHNICAL PARAMETERS

Supply voltage	
Power supply	20-60Vdc, power consumption ≤ 5W
Frequency range	40~65Hz
Monitored IT system	
Nominal system voltage	0…1000 Vac/dc
Frequency range	40~65Hz
Insulation resistance	
Insulation resistance measurement range	0~30MΩ
Insulation resistance measurement accuracy	0~100 KΩ, C_Y≤ 2μF, Bus voltage stability: ±12 KΩ 100 kΩ~1 MΩ, C_Y≤ 2μF, Bus voltage stability: ±10 % 1 MΩ~30 MΩ, C_Y =0μF, Bus voltage stability: ±10 %
High voltage input internal resistance	
When powered on (internal high-voltage relay closed)	Positive and negative poles to earth: 5.1 MΩ respectively
When powered off or not operating (internal high-voltage relay opened)	Positive and negative poles to earth: > 500 MΩ
Measuring circuit	
Injection measuring voltage	±15V
Injection measuring current	<100μA
Injection pulse signal frequency	Self-adaptive, depending on the Y-capacitance (CY) value and insulation resistance value.
Permissible system leakage capacitance	≤20μF
Alarm relay output	
Quantity	2* SPDT relay
Max. switching current	>100mA
Max. withstand voltage	12Vdc
Load capacity	5A@250VAC
Alarm-1 (IR pre-alarm)	Default 500KΩ
Alarm-2 (IR alarm)	Default 250KΩ

Relay input	
Quantity	2*DI for reset/ test, NO, active dry contact, with internal 15Vdc pull-up voltage
Load capacity	Ri<500Ω turn on, Ri> 100KΩ turn off
Withstanding voltage	
Standard version High voltage to low voltage: 3500Vdc; 2500Vac (rms) CAN to high voltage: 3500Vdc; 2500Vac (rms)	
High voltage version High voltage to low voltage: 7000Vdc; 5000Vac (rms) CAN to high voltage: 7000Vdc; 5000Vac (rms)	
Communication	
RS485 interface	Modbus RTU protocol
Canbus interface (optional)	Custom protocol
Environment	
Working temperature	- 40°C ~85°C
Storage temperature	- 40°C ~85°C, humidity: 5~95%RH
Others	
Standards	IEC 61557-1:2018 and IEC 61557-8:2018
Installation method	Standard 35mm Din-rail mounting
Dimension	W*H*D: 108*110*66mm

3.- FUNCTION INTRODUCTION

3.1.- Insulation resistance monitoring function

The BIM-M1000 continuously monitoring the insulation resistance of IT systems (ungrounded systems). When the measured insulation resistance falls below the preset alarm threshold, the corresponding alarm relay trips out, and the LED indicator illuminates to issue an alarm. For proper measurement, the device must be connected between the IT system and the protective earth conductor (E). the measurement current is applied to the system and detected and evaluated by the measuring circuit.

After power-on, the “PWR” indicator turns on, and the device enters insulation resistance monitoring by default. The operating mode can be configured via registers 0x006E to “manual trigger insulation monitoring after powered on.” In this mode, insulation monitoring does not start automatically after powered on and It is also necessary to manually enable or disable the insulation monitoring function via Register 0x0070. Additionally, users can select the present measurement mode (DC or AC system) in Register 0x006F. For further details, please refer to chapter 5.4.2.

In DC systems, the insulation resistance of the positive and negative terminals to ground can be measured independently.

In AC systems, interference from high-frequency voltage harmonics can be suppressed, allowing for accurate measurement of the insulation resistance to ground of the entire AC system.

If DC to ground capacitance exists, the module can adaptively monitor grounding capacitance below 10uF (positive and negative capacitances to ground are both below 10uF, total capacitance below 20uF), with a monitoring time not exceeding 60s in the presence of ground capacitance.

Working principle:

BIM-M1000 insulation monitoring device adopts the active measuring method principle (signal injection principle) to continuously monitor insulation in unearthed systems. The device is connected between the live conductors and earth, superimposes a ±15V measuring voltage to the system.

When the system insulation is intact, the resulting measuring current is minimal. If an insulation fault occurs, the measuring circuit closes, generating a small current inversely proportional to the insulation fault. The device’s internal electronics continuously capture and analyze this measuring current, and an alarm is triggered when the insulation resistance drops below the preset response value.

3.2.- Auto and manual reset function

The BIM-M1000 supports both manual reset and automatic reset modes. The reset mode can be selected via register 0x0071. The RST button on the front panel is effective for reset function only when manual reset mode is selected.

Automatic reset mode (default): When fault occurs, the output signal is activated immediately (e.g. self-test fault indicator turns on, alarm indicator lights up, relay output is energized). When the fault is cleared, the output signal automatically returns to the normal status.

Manual reset mode: When fault occurs, the output signal is activated immediately (e.g. self-test fault indicator turns on, relay output is energized). Even after the fault is cleared, the output signal remains in "fault" status until manual reset by pressing the RST button.

Note: Alarm function 1-8 only supports automatic reset. Selecting manual reset for these alarms is invalid.

3.3.- Alarm function

BIM-M1000 supports up to 8 types of configurable alarm function for monitoring critical parameters, the alarm thresholds can be flexibly configured to enable accurate system condition warning and protection.

Alarm No.	Item	Parameter	Value
Alarm-1	Insulation resistance pre-alarm	IR pre-alarm	0~30MΩ
Alarm-2	Insulation resistance alarm	IR alarm	
Alarm-3	Voltage over threshold	Volt	0-1000V
Alarm-4	System leakage capacitance over threshold	YCap	0-20μF
Alarm-5	DC offset over threshold	DCoff	20-1kV
Alarm-6	Reserved function	Rfu	/
Alarm-7	Reserved function	Rfu	/
Alarm-8	Reserved function	Rfu	/

3.4.- DI/ DO function

BIM-M1000 supports 2 channels DO for alarm status output, and 2 channels DI for external control signals input.

Configuration	Parameter	Value
Relay output	Mapping	OFF, Alarm-1, Alarm-2, Alarm-3, Alarm-4, Alarm-5, Alarm-6, Alarm-7, Alarm-8
	Link	OFF, Alarm-1, Alarm-2, Alarm-3, Alarm-4, Alarm-5, Alarm-6, Alarm-7, Alarm-8
	Logic	AND, OR
	Mode	NC: Normally close NO: Normally open Flash: relay is flashing, flashing frequency: 1 second ON / 1 second OFF

Configuration	Parameter	Value
Relay input	Mode	OFF Active high Active low
	Delay	Signal response time delay, range: 10ms to 10s.
	Function	DI 1: Default for device self-test DI 2: Default for reset self-test faults and relay status

3.5.- Line disconnection detection function

This device features line disconnection detection. The KE and E terminals for monitor grounding status; if a disconnection or improper connection occurs, the fault LED on the panel lights up immediately. The LED turns off automatically once the connection is restored.

When the device not detects the signal voltage, it can perform a signal line (L1/+, L2/-) line disconnection detection via a self-test function triggered by pressing the [Self-Test] button. If line disconnection is detected during the self-test, the fault indicator lights up. After the connection is restored, the [Self-Test] button must be pressed again to run the check; once normal operation is confirmed, the fault indicator turns off. For details, please refer to **chapter 4.3**.

4.- INSTALLATION AND START-UP

The manual you hold contains information and warnings that users should follow in order to guarantee a proper operation of all the instrument functions and keep it in safety conditions. The instrument must not be powered on and used until its definitive assembly is on the cabinet's door.

If the instrument is not used as manufacturer's specifications, the protection of the instrument will be damaged.

When any protection failure is suspected to exist (for example, it presents external visible damage), the instrument must be immediately powered off. In this case contact a qualified service representative.

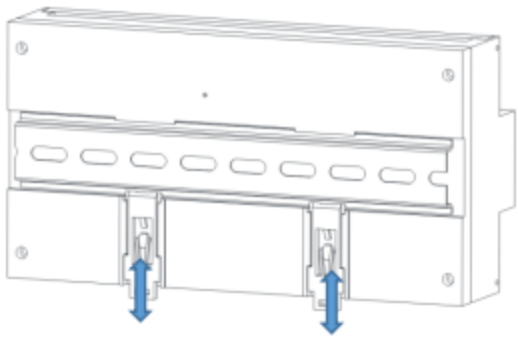
4.1.- Installation method

BIM-M1000 is to be mounted on 35mm Din-rail.

Step-1 Fasten a section of 35 mm DIN rail (at least 8 inches long) to the mounting surface with appropriate hardware.

Step-2 Use the white plastic clips on the back of the BIM-M1000 to clip onto the rail.

Step-3 Verify that the device is securely fastened to the wall.

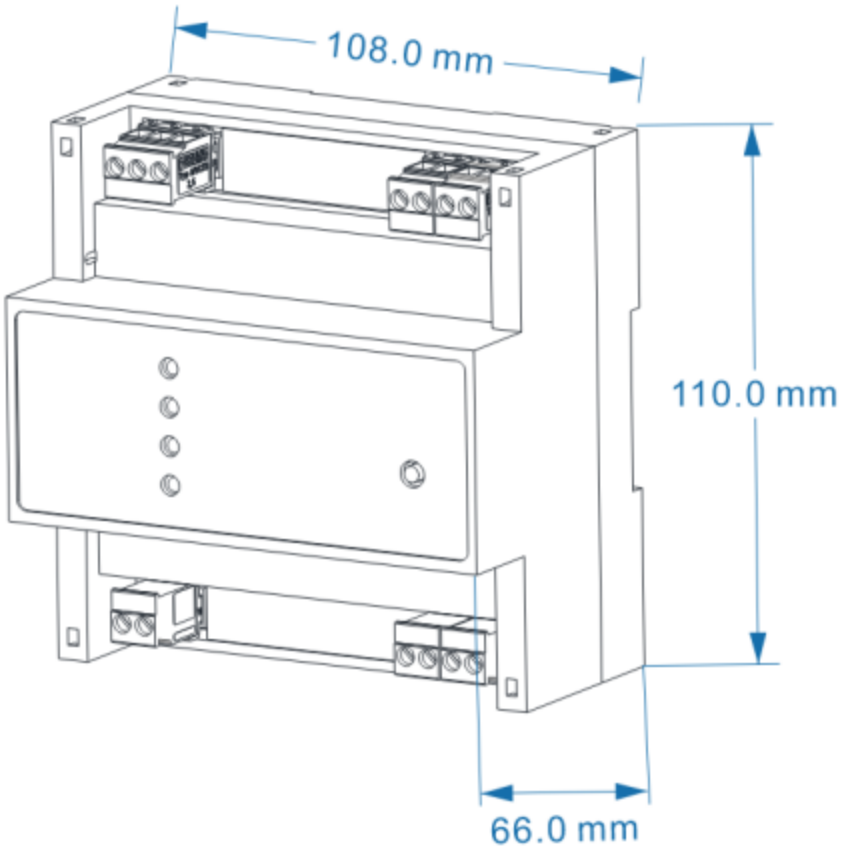


There have two flaps covers, can sealed by lead wire to protect unauthorized access terminal block, to achieve physical anti-theft function. Also capable of completely shielding the terminal head to prevent accident electrical shock.

Warning that with the instrument powered on, the terminals could be dangerous to touch and cover opening actions or elements removal may allow accessing dangerous parts.

Therefore, the instrument must not be used or operation key button until this is completely installed and close the cover.

4.2.- Dimension (Unit: mm)



4.3.- Indicator lights and button function description

After the module is powered on, the power indicator light turns on.



Indicator	Definition
PWR	Off: Device is not powered on Green: Device is powered on and operating normally
ALM-1	Off: Relay-1 not trip Yellow: Relay-1 trip out
ALM-2	Off: Relay-2 not trip Red: Relay-2 trip out
Fault	KE/E line disconnection detection Signal line (L1/+, L2/-) disconnection detection

Button	Definition
TEST	**Short press** to start signal line (L1/+, L2/-) disconnection detection
RST	**Short press** to reset fault and alarm status; hold for 2 seconds, and the power indicator light will flash.

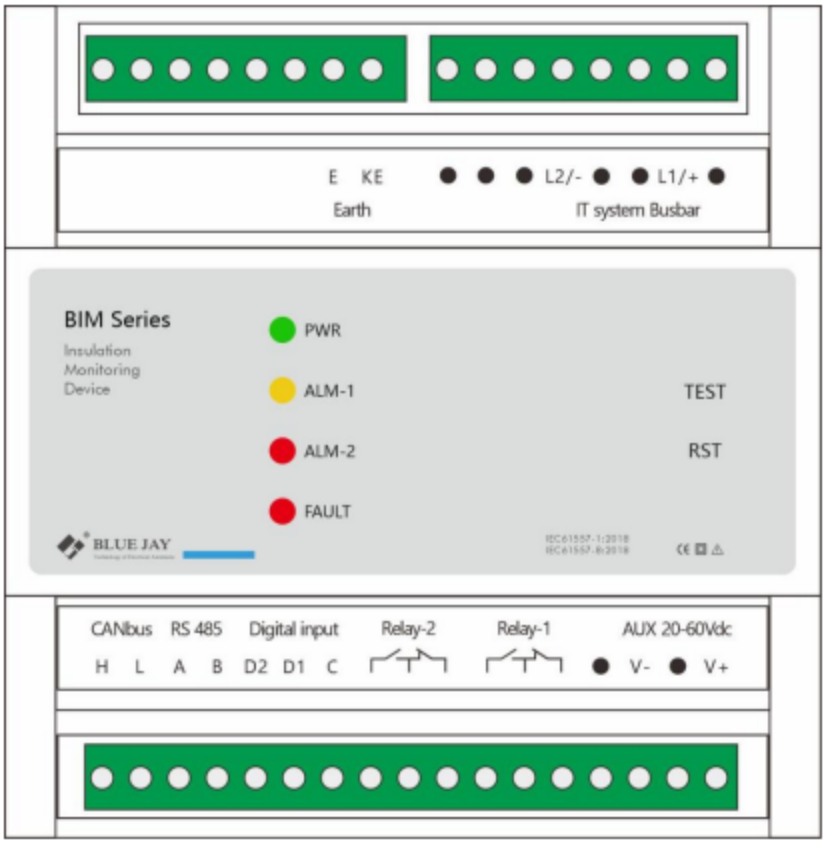
Note:

-. E, KE terminal faults trigger the fault LED alarm automatically and auto reset upon reconnection.

-. Signal line (L1/+ and L2/-) disconnection is not detected automatically. Press [Test] to detect the disconnection. After restoring the connection, press [Test] again to verify normal connection.

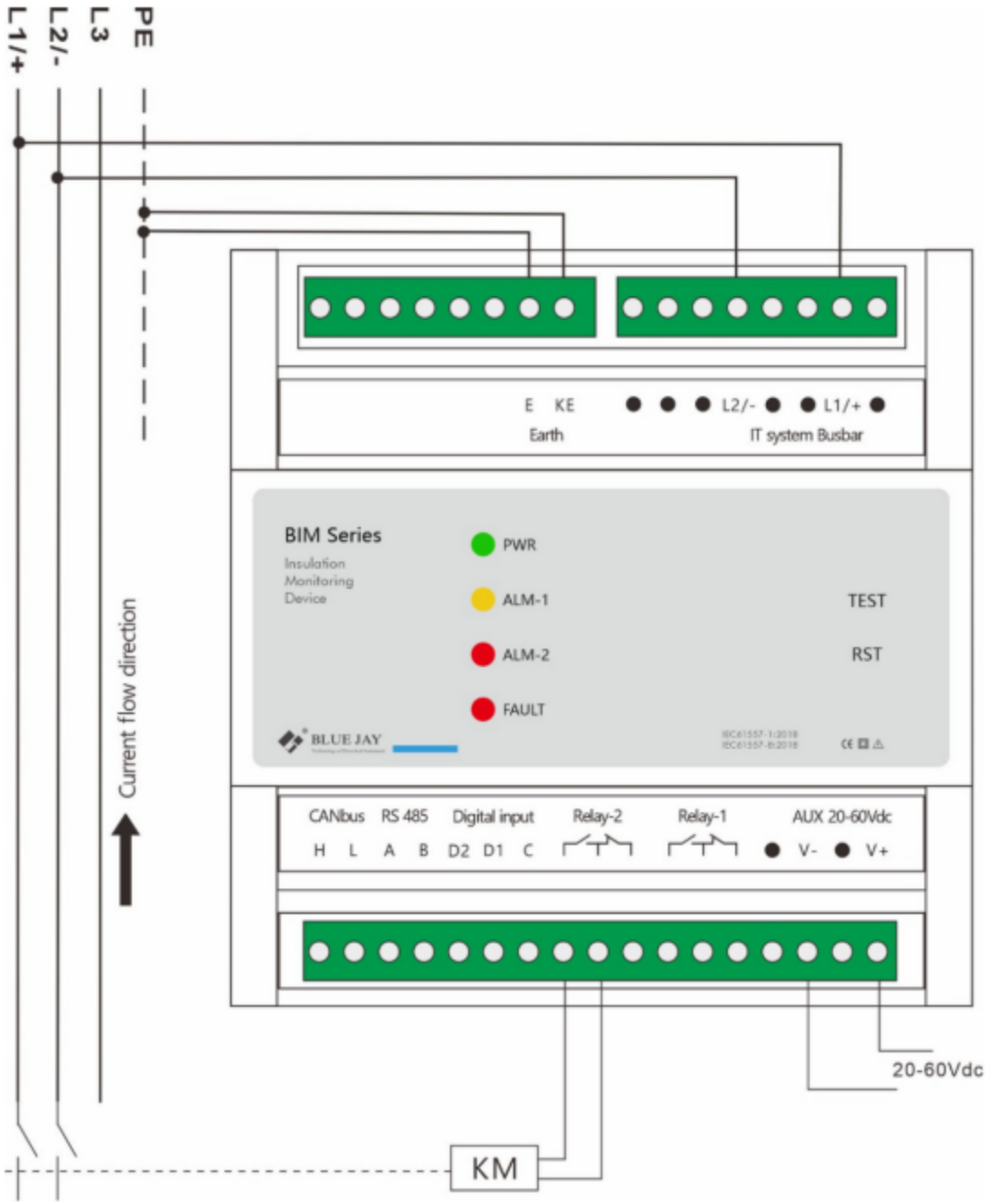
-. Press and hold the Test and Reset buttons simultaneously for 3 seconds to reset the communication parameters to default settings: address 1, baud rate 9600, parity n.8.1.

4.4.- Terminal Definition



Marked	Notes
E, KE	Protective earth
L1/+	Connect to AC system L1/ DC system positive pole
L2/-	Connect to AC system L2/ DC system negative pole
CANbus H/ L (optional)	CANBUS high port
	CANBUS low port
RS485 A, B	RS485 communication interface A, B
Digital input C, D1, D2	**C:** Common terminal **D1:** Digital input-1 **D2:** Digital input-2
Relay-1/ 2	Digital output-1 Digital output-2
V+, V-	AUX power supply 20-60Vdc

4.5.- Typical wiring diagram



In DC system: Connect terminal **L1/+ and L2/-** to positive (+) and negative (-) terminals of DC busbar.

Measurement parameters:

- Positive pole to earth insulation resistance (IR+)
- Negative pole to earth insulation resistance (IR-)
- Positive and negative pole to earth parallel insulation resistance (IRz)
- DC system bus voltage

In AC system (Support single and three phase)

Single-phase: connect terminals L1/+ and L2/- to the system L and N respectively.
Three-phase (3P3W): connect terminals L1/+ and L2/- to any two phases of L1, L2, L3.
Three-phase (3P4W): connect terminals L1/+ and L2/- to any two phases of L1, L2, L3, N.

Measurement parameters:

- L1 and L2 to earth parallel insulation resistance (IRz)
- Measure the L1 to L2 line voltage (L-L)

Notes:

-. Users must first configure measure AC system or DC system in register map (0x006F).

-. When the IMD L1/+ and L2/- terminals are properly connected to the system under test, but the system is de-energized, the IMD measures the parallel insulation resistance of R+ and R−, rather than the insulation resistance under energized conditions.

-. If the IMD L1/+ and L2/- terminals are not connected to the system under test, no valid measurement circuit can be established, and the IMD cannot perform insulation monitoring or obtain valid measurement results.

5.- COMMUNICATION INTERFACE

BIM-M1000 supports two industry-standard communication protocols:

RS485 Modbus RTU: Used for data exchange and parameter configuration with a host computer.

Optional CANbus custom protocol: Allows networking with other devices supporting the CAN protocol.

Note: If CANbus is selected, CANbus and RS485 cannot be used simultaneously. Please contact our sales team for the dedicated CAN Bus communication protocol.

5.1.- RS485 communication protocol

Users can send and receive data frames through the RS485 communication port. For details, see communication protocol. Terminals A and B correspond to RS485 outputs A and B respectively.

BIM-M1000 device supports Modbus RTU protocol, using Modbus RTU 0x03/0x06 command; Default baud rate 9600, communication address 001, no parity, stop bit 1, data bit 8. The time interval between each byte in the sent frame shall not exceed 20ms, otherwise the frame will be cleared.

Modbus RTU Frame Format:

Address code	**1 BYTE**	Slave device address **1-247**
Function code	**1 BYTE**	Indicates the function codes like read coils / inputs
Data code	**4 BYTE**	Starting address, high byte Starting address, low byte Length of registers, high byte Length of registers, low byte
Error Check code	**2 BYTE**	Cyclical redundancy check (**CRC)**

MODBUS FUNCTIONS:

Code	Meaning	Description
FUNCTION 03	Read hold register	This function permits to read all the electrical parameters
FUNCTION 06	Write single register	This function permits to write a value into a single holding register.

5.2.- Register map

5.2.1.- Parameter query, read only, function 03 to read.

Register	Data	Byte mode		Description
0x0000-0x000A	Reserved			
0x000B	DC bus voltage	Int	1	Unit 0.1V,16-bits
0x000C	Insulation resistance	Int	1	Unit: kΩ, integer value (0xFFFF: invalid value; 0xEA60: resistance value greater than 30 MΩ)
0x000D	Minimum insulation resistance	Int	1	The minimum measured insulation resistance
0x000E-0x0014	Reserved			
0x0015	L1 to L2 voltage	Int	1	Unit 0.1V,16-bits
0x0016-0x0028	Reserved			
0x0029	Positive pole to earth insulation resistance IR+	Int	1	Unit: kΩ, (0xFFFF: invalid value; 0xEA60: resistance > 30 MΩ)
0x002A	Negative pole to earth insulation resistance IR-	Int	1	
0x002B	DC alarm status	Int	1	DC fault percentage (only valid when DC voltage ≥ 20V) Offset: **1:** 0…25% DC positive pole fault **2:** 25…75% Symmetrical fault **3:** 75…100% DC negative pole fault
0x002C	DC to ground offset voltage	Int	1	DC to ground offset voltage absolute value, units: 0.1V ((only valid when DC voltage ≥ 20V).
0x002D-0x0032	Reserved			
0x0033-0x0035	Reserved			
0x0036	DC component (positive pole impedance %)	Int	1	Unit: 0.1% 0% = DC positive terminal fault 100% = DC negative terminal fault
0x0037-0x0064	Reserved			

5.2.2.- Parameters query and settings, read and write, fun03 to read/ 06 to write

Register	Data	Byte mode		Description
0x0065-0x006D	Reserved			
0x006E	Present working mode	Int	1	**0:** Automatic insulation monitoring after powered on (Default) **1:** Manual trigger insulation monitoring after powered on
0x006F	Present measurement mode	Int	1	**0:** DC system **1:** AC system
0x0070	Insulation monitoring function	Int	1	**0:** Turn off insulation monitoring function **1:** Turn on insulation monitoring function
0x0071	Reset function	Int	1	**0:** Manual reset **1:** Auto reset (Default)
0x0072	Capacitance Level	Int	1	1: <5μF 2: 5-15μF 3: >15μF
0x0073-0x00F9	Reserved			
0x00FA	RS485 address	Int	1	**Default: 1;** range:1-247
0x00FB	Baud rate	Int	1	**Default:** 9600; **0:** 1200; **1:** 2400; **2:** 4800; **3:** 9600; **4:** 19200
0x00FC	Data format	Int	1	**Default:** n.8.1; **0:** n.8.1; **1:** o.8.1; **2:** e.8.1; **3:** n.8.2

5.2.3.- Alarm, DI, DO status, readable& writable, function 03 to read/ 06 to write

Register	Data	Description
0x0137	Alarm-1 Mode	0: Off; 1: Rising; 2: Falling
0x0138	Alarm-1 Data	Choose 1 from 8 functions, repeatable: 0: Insulation resistance pre-alarm 1: Insulation resistance alarm 2: Voltage over threshold 3: System leakage capacitance over threshold 4: DC offset over threshold 5: Reserved function 6: Reserved function 7: Reserved function
0x0139	Alarm-1 Delay	Range: 0000-9999, default 1000ms
0x013A	Alarm-1 Trip value	Range: 0000-9999 For IR pre-alarm: unit: KΩ For IR alarm: unit: KΩ For Volt: unit: 0.1V For YCap: unit: 0.1μF For DCoff: unit: 0.1V
0x013B	Alarm-1 Hysteresis.	0-9999: hysteresis value
0x013C-0x014A	Reserved	
0x014B-0x014F	Alarm-2	The same as Alarm-1
0x0150-0x015E	Reserved	
0x015F-0x0163	Alarm-3	The same as Alarm-1
0x0164-0x0172	Reserved	
0x0173-0x0177	Alarm-4	The same as Alarm-1
0x0178-0x0186	Reserved	
0x0187-0x018B	Alarm-5	The same as Alarm-1
0x018C-0x019A	Reserved	
0x019B-0x019F	Alarm-6	The same as Alarm-1
0x01A0-0x01AE	Reserved	
0x01AF-0x01B3	Alarm-7	The same as Alarm-1
0x01B4-0x01C2	Reserved	
0x01C3-0x01C7	Alarm-8	The same as Alarm-1
0x01C8-0x02BC	Reserved	

Register	Data	Description
0X02BD	DO-1 mapping data	0: OFF 1: Alarm-1 2: Alarm-2 3: Alarm-3 4: Alarm-4 5: Alarm-5 6: Alarm-6 7: Alarm-7 8: Alarm-8
0X02BE	DO-1 link data	0: OFF 1: Alarm-1 2: Alarm-2 3: Alarm-3 4: Alarm-4 5: Alarm-5 6: Alarm-6 7: Alarm-7 8: Alarm-8
0X02BF	DO-1 association logic mode	0: AND; 1: OR
0X02C0	DO-1 default status	0: NC (when power on, relay closes and when reached the trigger condition relay opens). 1: NO (default) 2: Flash: relay is flashing, flashing frequency: 1 second ON / 1 second OFF
0X02C1-0X02D0	Reserved	
0X02D1-0X02D4	DO-2 setting	The same as DO-1
0X02D5-0X03E8	Reserved	

Register	Data	Description
0X03E9	DI-1 Mode	0: OFF 1: Active high 2: Active low
0X03EA	DI-1 Delay	Range 10ms-10s
0X03EB	DI-1 Function	Choose 1 from 2 functions, repeatable: 0: Test 1: Reset
0X03ED-0X03FC	Reserved	
0X03FD-0X03FF	DI-2	The same as DI-1
0X0400-0X0514	Reserved	

5.2.4.- Query alarm status and self-test fault status, read only, function 03 to read

Register	Data	Byte mode		Description
0X0516-0X0546	Reserved			
0X0547	Alarm status	Int	2	**Bit 0:** Alarm 1 status (0: Normal; 1: Triggered) **Bit 1:** Alarm 2 status (0: Normal; 1: Triggered) **Bit 2:** Alarm 3 status (0: Normal; 1: Triggered) **Bit 3:** Alarm 4 status (0: Normal; 1: Triggered) **Bit 4:** Alarm 5 status (0: Normal; 1: Triggered) **Bit 5:** Alarm 6 status (0: Normal; 1: Triggered) **Bit 6:** Alarm 7 status (0: Normal; 1: Triggered) **Bit 7:** Alarm 8 status (0: Normal; 1: Triggered) **Bit 8-15:** Reserved
0X0548	DI status	Int	2	Bit0：DI1 status (0: Normal; 1: Triggered) Bit1：DI2 status (0: Normal; 1: Triggered)
0X0549	DO status	Int	2	Bit0：DO1 status (0: Normal; 1: Triggered) Bit1：DO2 status (0: Normal; 1: Triggered)
0X054A	KE, E line fault status	Int	2	Bit 0: (0: Normal; 1: Line disconnection detected)
0X054B	Signal line (L1/+, L2/-)	Int	2	Bit 0: (0: Normal; 1: Line disconnection detected)
0X054C-0X0578	Reserved			

Note: Bit sequence is from LSB to MSB.

5.2.5.- Factory information query, read only, function 03 to read（None available）

Register	Data	Description
0XFFDC	Manufacturer	Manufacturer name or device code
0XFFDD	Device model	Device model information
0XFFDE	Product number	Unique product number for internal management or certification
0XFFDF	Firmware version	Present running firmware version number
0XFFE0	Firmware date	Firmware compilation or release timestamp information
0XFFE1	Hardware version	Device hardware version number
0XFFE2	Production week	Indicates the year and week of manufacture, e.g., year 25, week 25
0XFFE3	SN code	Unique factory serial number of the device, used for tracking and identification.
0XFFE4	MAC address (Reserved)	
0XFFE5-0XFFFF	Reserved	

6.- SAFETY CONSIDERATIONS



All installation specifications described in the previous chapters named: **INSTALLATION AND STARTUP, INSTALLATION MODES and SPECIFICATIONS.**

Please note that with the instrument powered on, the terminals could be dangerous to touch and cover opening actions or elements removal may allow accessing dangerous parts. This instrument is factory-shipped at proper operation conditions.

- The device must have professional installation and maintenance.
- Any operation of the device, you must cut off the signal and power.

7.- MAINTENANCE

The BIM-M1000 does not require any special maintenance. No adjustment, maintenance or repairing action should be done when the instrument is open and powered on, should those actions are essential, high-qualified operators must perform them.

Before any adjustment, replacement, maintenance or repair operation is carried out, the instrument must be disconnected from any power supply source.

When any protection failure is suspected to exist, the instrument must be immediately put out of service. The instrument's design allows a quick replacement in case of any failure.

For any inquiry about the instrument performance or any failure,
contact to Blue Jay's technical service.

Blue Jay - After-sales service

E-mail: tech@cqbluejay.com