

AIM-M200 Insulation Monitor Device



General

The AIM-M200 monitors the insulation resistance of medical IT system, At the same time, the load current and temperature of the IT system transformer is monitored. In combination with ASG100, AIL100 series insulation fault locators and the appropriate measuring current transformers, the AIM-M200 is designed to support insulation fault location.

Function Description

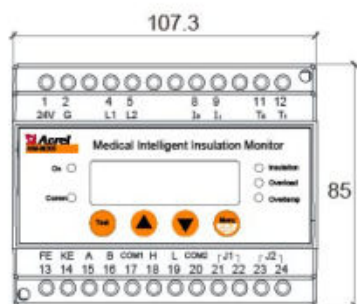
- Insulation, load and transformer temperature monitoring for IT system;
- Real-time monitoring disconnection fault of L1/L2, temperature sensor and FK, and alarming when these faults occurs;
- Relay alarm output and LED alarm output;
- Real-time monitoring the status of operating by data exchange with AID series or centralized monitoring software via field bus;
- With SOE function;
- AIM-M200 is with insulation fault locating function.

Technical Parameters

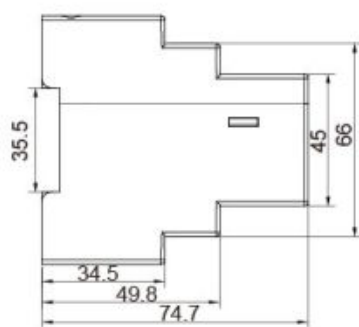
Parameters		Model	AIM-M200
Auxiliary power supply	Voltage		DC24V(±25%)
	Frequency		—
	Maximum power consumption		<3VA
Insulation monitoring	Insulation resistance		10~999kΩ
	Relative uncertainty		0~±10%
	Alarm value		50~999kΩ
	Response time		<2s
	Measuring voltage		<12V
	Measuring current		<50uA
Current monitoring	Measuring range		2.1~50A
	Alarm value		5~50A
	Accuracy		5%
	Display method		Value and percentage display
Temperature monitoring	Thermistor		PT100
	Measuring range		-50~+200℃
	Alarm value		0~+200℃
Alarm output	Output		2 relay(not programmable)
	Contact capacity		AC 250V/3A DC 30V/3A
Communications			1 RS485 (Modbus-RTU)
			1 CAN
Environment	Operating temperature		-10~+50℃
	Storage temperature		-20~+70℃
	Relative humidity		5%-95%,No condensation
	Altitude		≤2500m
EMC & EMR			IEC61326-2-4

Dimension Drawings

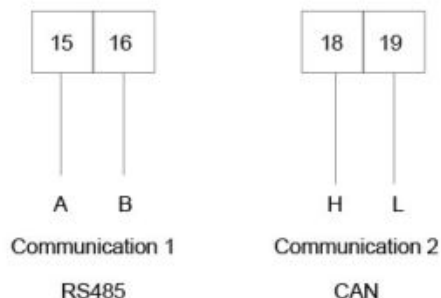
Dimensions in mm



Front view



Side view

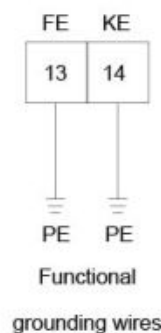


Communication 1

RS485

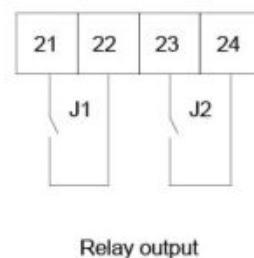
Communication 2

CAN



Functional

grounding wires



Relay output

Operation and Display

LED indicator instructions

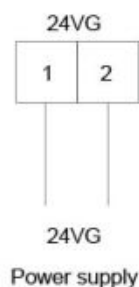
"On"	Flashes once per second during normal operation.
"Comm"	Flashes when communication
"Insulation"	Flashes when insulation fault.
"Overload"	Flashes when overload fault.
"Overtemp"	Flashes when overtemperature fault.

Button function descriptions

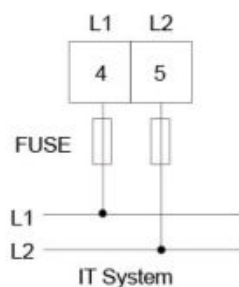
Test	In non-programming mode to start the self-test, in other state, used as return function.
▲ ▼	In programming mode, used to increase or decrease the value .
Menu	In non-programming mode, used to enter the programming mode. In programming mode, used as Enter button.

Wiring

Terminal description



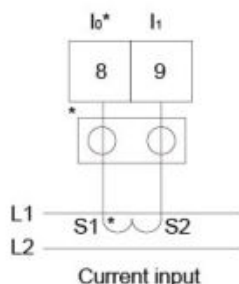
Power supply



IT System



Temperature input



Current input

Malfunctions

Error	Possible cause/Actions
AIM-M200 display blank	Check DC 24V power supply
LCD: Insulation fault	The resistance between IT system and PE below the response value.
LCD: LL open	Connection fault to IT system
LCD: FK open	Connection fault to PE
LCD: TC open	Connection fault to temperature sensor.
LCD: Overload	Load current above the response value
LCD: Overtemp	Temperature above the response value
Communication fails	First check the cable and make sure the connection is right. Then check the bus address and baudrate.
LEDs do not light	Replace AIM-M200
Display is lit but the screen is empty	Replace AIM-M200

