Acrel

AID150 Alarm and Display Device

Dimension Drawings

Dimensions in mm

Front view   Side view
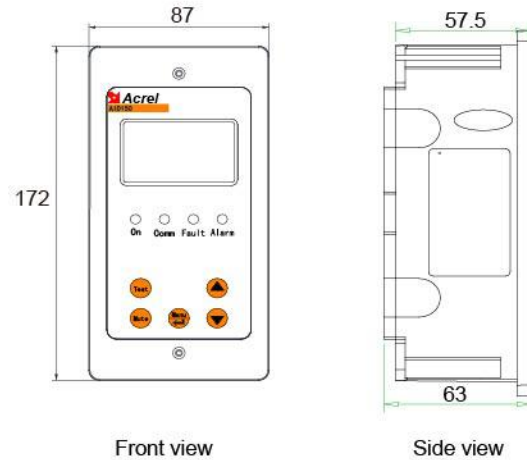
General

The alarm and display instrument AID150 is designed for visual and audible indication of alarm messages from ACREL medical intelligent insulation monitor AIM-M10, AIM-M100, AIM-M200, and Residual current monitor AIM-R100 . It meets with the requirement of GB16895.24-2005/IEC 60364-7-710:2002.

Function Description

● Real-time data monitor and alarm by field bus;

● Remote parameter setting;

● Acoustic alarm with mute function.

Technical Parameters

Parameters	Model	AID150
Auxiliary power supply	Voltage	DC 24V
	Power consumption	< 0.6W
Insulation resistance		—
Insulation alarm value range		50—999kΩ
Transformer load rate display		—
Load current alarm settings		14A、18A、22A、28A、35A、45A
Temperature alarm value range		O—+200℃
Alarm		Acousto-optic alarm
Alarm Type		Insulation fault, overload, over-temperature, equipment failure
Communication		RS485(MODBUS-RTU)
Display method		128*64 bits LCD

Wiring

Terminal description

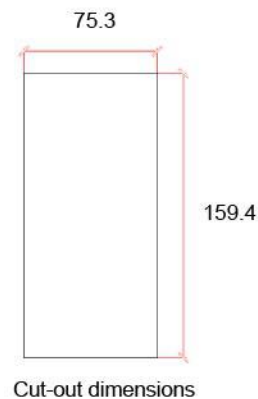

AUX POWER   RS485 Port
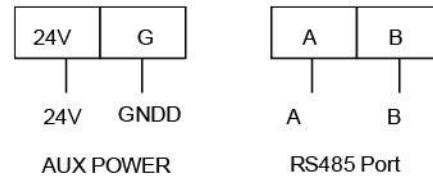
Note:

The 24V power supply can be connected with multiple copper wires of 2x1.5mm², and the RS485 terminals can be connected with shielded twisted pair of 2x1.5mm².

Installation
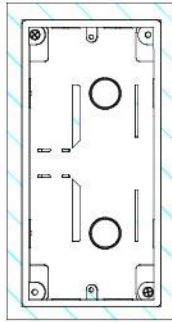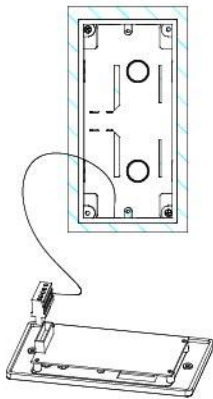
■ Dimension of flush-mounting enclosure

Dimensions in mm

Cut-out dimensions

■ Flush-mounting

The flush-mounting enclosure is included in the scope of delivery of AID150.

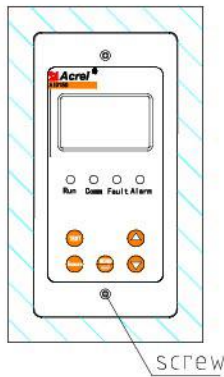Installation and operation instruction

1.Insert the enclosure into the wall.

2.Connect the wire to the terminals of the front panel.

3.Fix the front panel with screw.

screw

Operation and Display

■ LED indicator instructions

"On"	Flashes once per second during normal operation.
"Comn"	Flashes When communication.
"Fault"	Flashes When AIM wiring fault.
"Alarm"	Flashes When AIM alarm.

■ Button function descriptions

Mute	To mute the audible alarm
Test	In non-programming mode to start the self-test of AIM-M100, 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.

■ Data settings

First menu	Second menu	Range and description
Comm	No. of slaves	1…16
	Baud	4800,9600,19200
Slave	Insulation	50…999
	Load	14,18,22,28,35,45
	Temperature	0…200
	Password	Set password, 0000…9999
	Time	Year-month-day hour:minute:second
	Clear	Clear the fault record
	Firmware	Software version
	Language	Select display language

Malfunctions

List of possible errors and proposals for the correction of the faults. This error list does not claim to be exhaustive.

Error	Possible cause/Actions
AID150 diplay blank	Check DC 24V power supply
Communication fails	First check the cable and make sure the connection is right. Then check AIM, make sure the bus address and baud rate is correct.
LEDs do not light	Replace AID150
Display is lit but the screen is empty	Replace AID150