

AID300-TP-40
Centralized Alarm and Display 4-inch Touch
Screen

Installation and Operation Manual V1.0

DECLARATION

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The Company reserves the right to modify the specifications of the products described in this manual without prior notice. Please consult your local distributor for the latest specifications before placing an order.

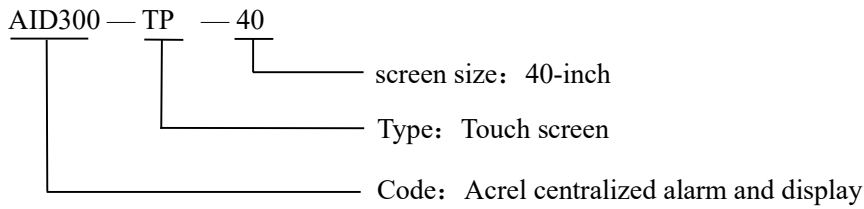
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1 Introduction

Centralized alarm and display are centralized monitoring modules for medical isolation power supply systems and residual current monitoring systems in medical locations. The product adopts a 4-inch color TFT with a resolution of 720 * 720, a capacitive touch screen design, and a time display function. The touch screen is connected to other devices (Insulation monitoring devices, residual current monitoring devices) through RS485 or CAN bus to form a complete monitoring system, achieving centralized monitoring and intelligent management of power distribution system in medical locations.

2 Product Model

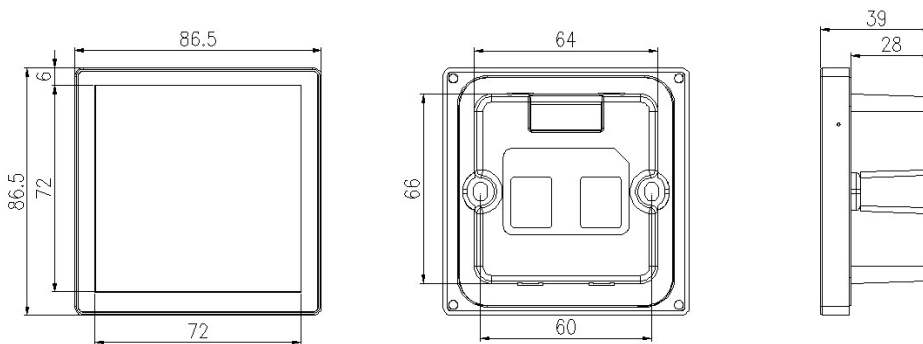


3 Technical Parameters

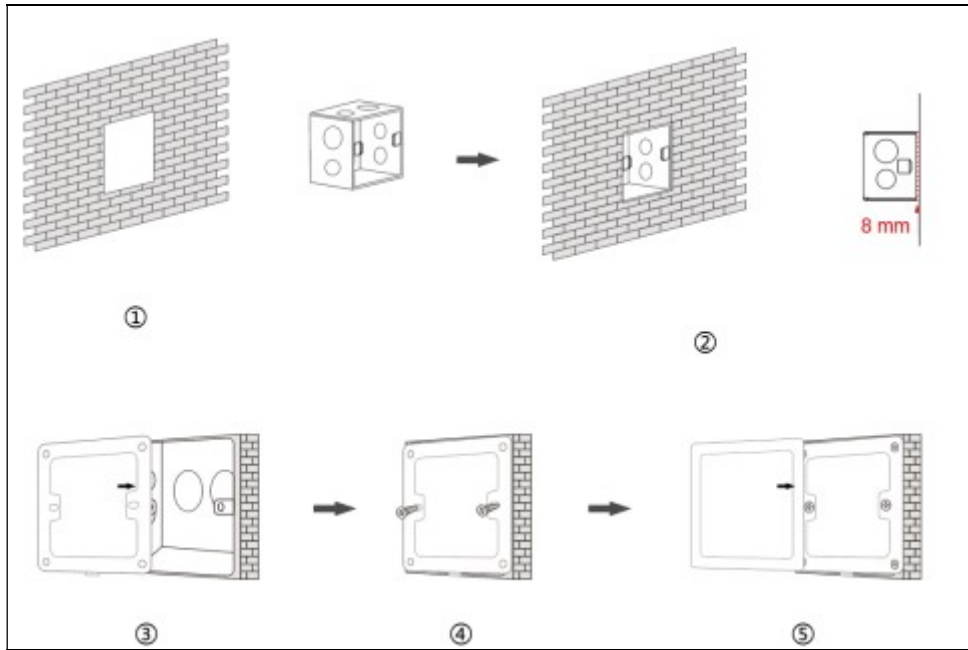
Item		Parameters
Power supply		DC 9-24V
Power consumption		<3W
Resolution ratio		720*720
Protection level		IP20
Number of monitoring devices		≤30
Environment	Operating temperature	-20°C~70°C
	Storage temperature	-30°C~80°C
	Operating Humidity	10%~90%RH
Installation		Wall mounted
Interface		RS 485, CAN, 24VDC

4 Installation and wiring

4.1 Installation dimensions (in mm)



4.2 Installations



4.3 Wiring

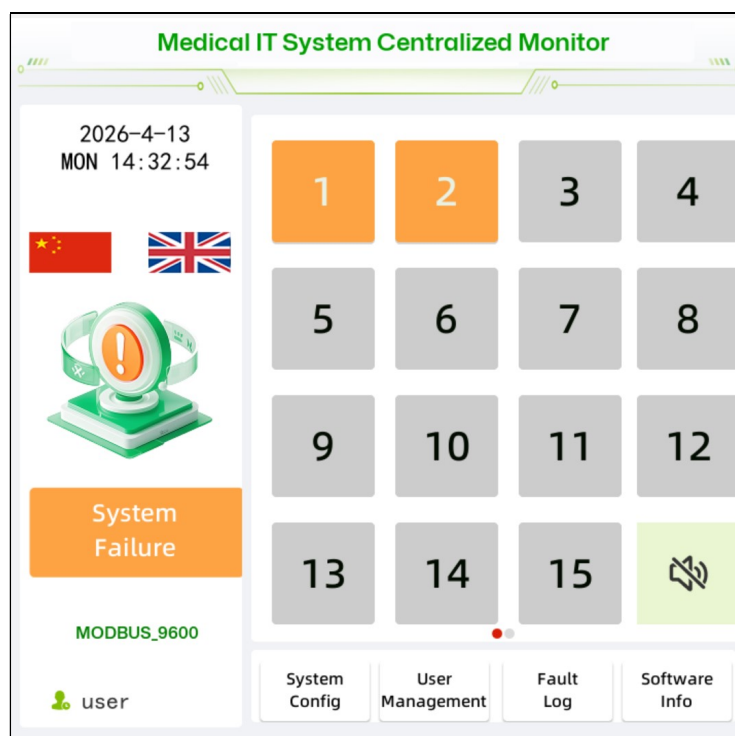
The wiring terminal diagram is shown below:

Power supply		RS485		CAN	
1	2	15	16	17	18
24V	G	A	B	H	L

5 User Manual

5.1 Enter the touch screen main interface

After power on, enter the main interface of the monitoring system, shown as below.



In the main interface, the numerical boxes on the right represents the corresponding communication address of device. If the device is running normally, the number box displays green color, but if the device alarms, the number box displays orange color. If there is no device for the number box, it displays in gray color. When one or more devices alarm, the "System Failure" box on the left will display as "System failure" and the color will change to orange.

When one or more devices alarm, the touch screen shall give a periodic "beep " alarm sound. Clicking the [mute] button can turn off the alarm sound until a new fault occurs again.

Click the date and time position of the monitoring system shall pop up the time setting interface, as shown in the following figure, where you can set the current time and date.

The screenshot shows a 'Time Settings' screen. At the top, the title 'Time Settings' is displayed in green. To the right of the title is a back arrow icon. Below the title, there are two sections: 'Date' and 'Time'. Under the 'Date' section, there are three input boxes: 'YYYY' containing '2020', 'MM' containing '1', and 'DD' containing '1'. Under the 'Time' section, there are three input boxes: 'HH' containing '0', 'MM' containing '0', and 'SS' containing '0'. At the bottom right of the screen, there is a green 'Save' button.

5.2 User Management

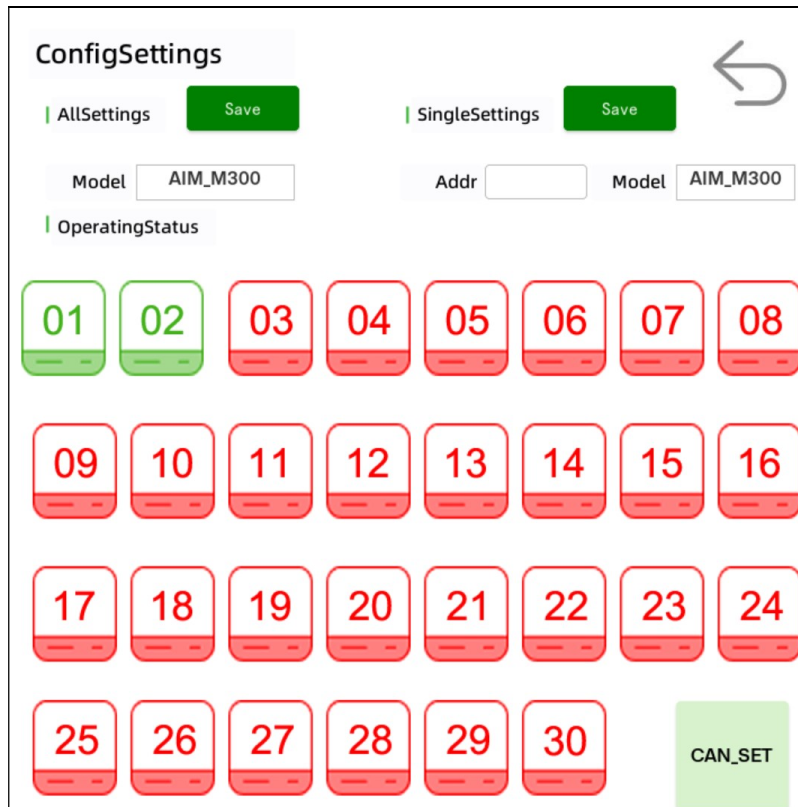
In the main interface, click the [User Management] button to enter the user login interface, as shown in the following figure.

The screenshot shows a 'User Management' screen. At the top, the title 'User Management' is displayed in green. To the right of the title is a back arrow icon. Below the title, there are two input fields. The first input field has a green person icon to its left and contains the text 'user'. The second input field has a green padlock icon to its left and is empty.

In this interface, click to select the name of duty user on the left (such as admin), enter the user password, and click the enter button to log in to the management system. After logging into the system, the on-duty user can perform relevant operations according to the assigned permissions. For manager, the default password for admin is 10000.

5.3 Configuration Settings

After users with configuration permissions are assigned to log in, they can perform configuration settings operations. In the main interface, click the [System Config] button to enter the interface shown in the following figure.



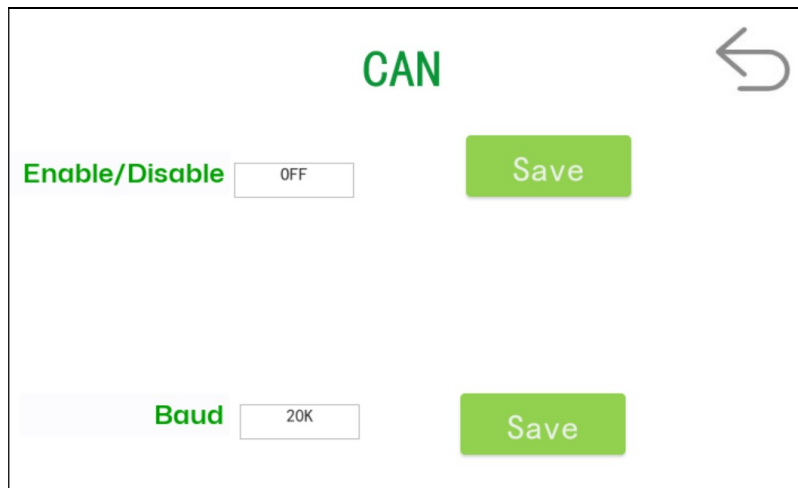
This interface is used to configure the model and quantity of devices connected in the system (≤ 30). In the [Operating Status] part, if there is a device at the corresponding address number position, click it to display green color. If there is no device, click it to display red color.

There are two ways to set the device model connected to the system:

If all devices are of the same model, click on the model drop-down list under the [All Settings] part, select the device model used, and click the [Save] button to save it.

If the device models connected to system are different, then select and set different device models for different addresses in the [Single Settings] part. After setting one device, click the [Save] button to save the settings.

If the device module is AIM-M300 or AIM-M300/SG, and communication bus is CAN bus, then the system shall open the CAN bus and config the baud rate by clicking [CAN-SET] button to open the following dialog box.

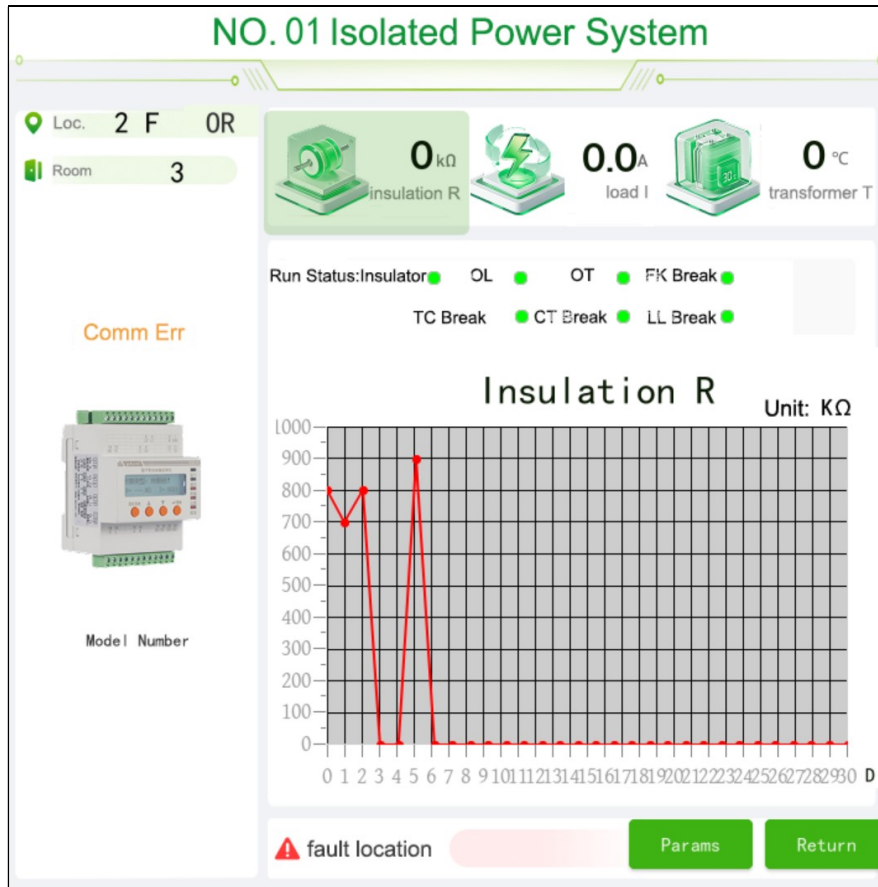


In this dialog box, each operation should be saved by clicking the [save] button.

5.4 Viewing and setting the device

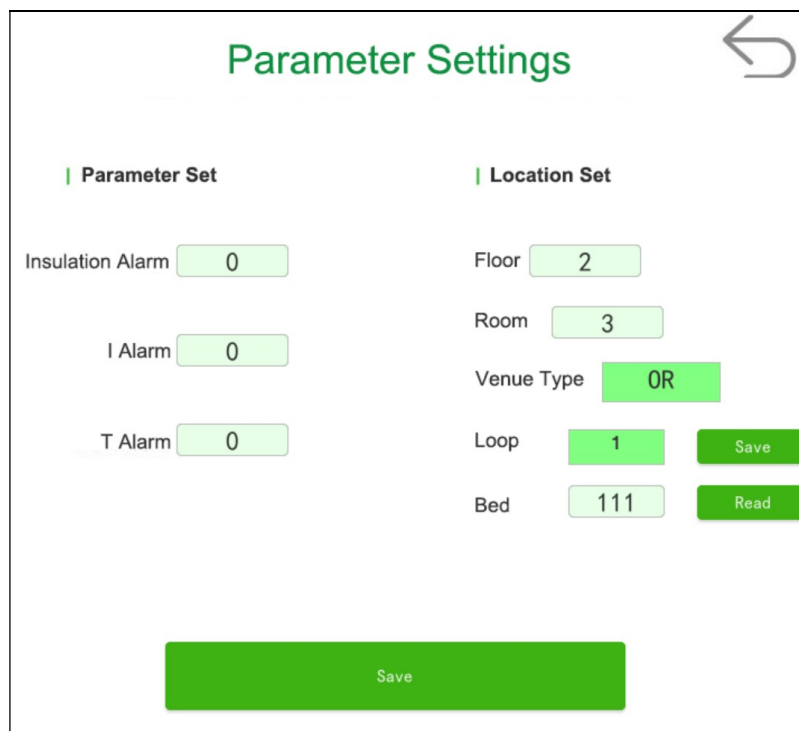
5.4.1 Viewing and setting the insulation monitoring device

In the main interface, click on any number to open the single device interface. The monitoring interface of the isolated power supply system (insulation monitoring device) with address number 01 is shown in the following figure.



In this interface, you can view the model, location, real-time data, and current operating status of the insulation monitoring device. When the device malfunction alarm is triggered, the green status indicator after the corresponding fault type shall change to orange color, until the fault is eliminated. The operating data of the device can also be displayed in the form of curves to facilitate the overall understanding of the system's operating status and trends by the staff.

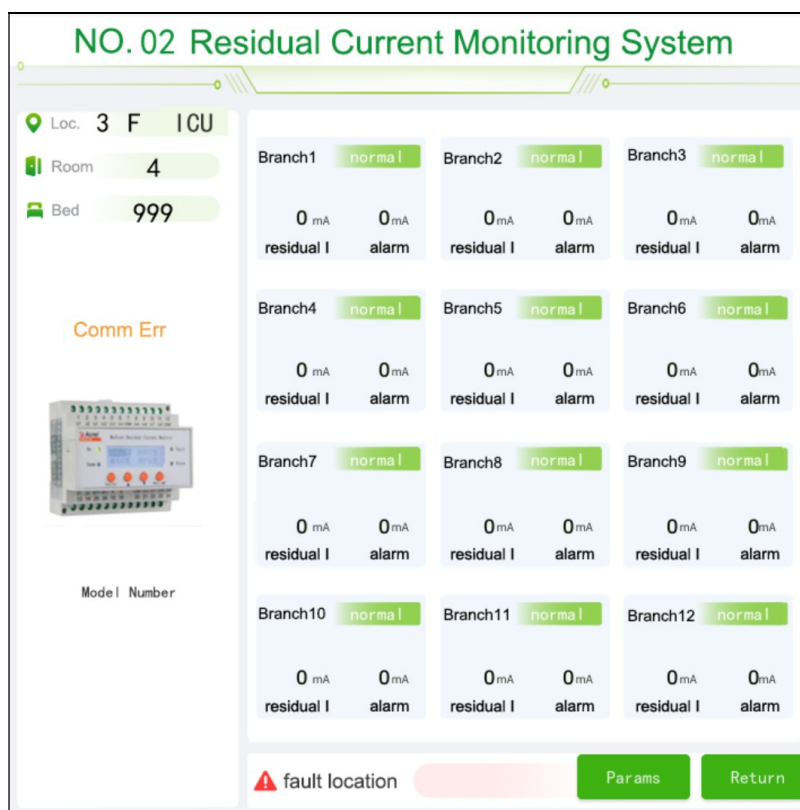
Click the [parameter set] button to open the parameter settings interface as shown in the figure below, to set the parameters of the device.



In this interface, user can set the alarm value, as well as the installation location, including the location type, floor number, and room number. If the system supports insulation fault location, the bed number corresponding to each circuit can also be set. Then click on [save] button to save the setting.

5.4.1 Viewing and setting the residual current monitoring device

In the main interface, if the device with the address number is a residual current monitoring device, clicking on that number shall open the monitoring interface shown in the following figure.



In this interface, the installation location, the residual current value and alarm value, as well as the operating status of the circuit can be displayed.

Click the [parameter set] button to open the parameter settings interface as shown below.

In this interface, for [single set], the residual current alarm value for each circuit can be set, to open the closed circuit, or close the monitoring circuit without using it. In [all set] part, the residual current alarm values of 12 circuits can also be set uniformly. In [location set] part, the location type, floor number, room number, etc. of the device can be set.

5.5 Fault record query

In the main interface, click the [fault record] button to open the following fault record query interface.

Time	Slave Address	Fault Type	Fault Circuit
2025-11-27 09:09:21	2	insulation	2
2026-01-14 08:42:02	2	OC	12
2026-01-15 08:47:15	2	OC	12
2026-01-15 08:48:00	2	OC	12
2026-01-15 09:30:38	2	OC	12

In this interface, records with different types and different time are record in the form of a table, making it convenient for users to trace and troubleshoot faults. Users with operational permissions can click the [clear alarm] button to clear fault records.

5.6 Software information

In the main interface, click the [information] button to open the software information interface shown below, where user can view the software number and version number.



6 Common fault analysis and troubleshooting

1) The screen is not lit

- Check if the power is connected properly and if the voltage is DC 9-24V.
- If the wiring is normal and the above problems still exist, please contact the manufacturer.

2) Communication is not available.

- Check if the communication cable is properly connected and if the cable sequence is correct. Are all devices connected hand in hand, and is there a 120 Ω matching resistor at each of the end of the communication bus.
- Check if the baud rate of the device is 9600bps.
- If there are still problems, please contact the manufacturer's after-sales personnel.

7 Installation requirements

- It is necessary for installer with professional skills to install this touch screen, and carefully read the instructions before installation.
- When wiring, follow the wiring instructions in the user manual. After wiring, carefully check whether the wiring is correct to avoid damaging the touch screen and causing dangerous accidents after power on.
- When installing or removing the touch screen, please ensure that the working power supply, connected devices, and related parts of the power supply have been cut off to avoid electric shock, danger, and personal injury.

- Before sending the touch screen for inspection or maintenance, all power and detection control connection wires must be cut off.

- Please follow the relevant specifications for wiring and cabling to avoid accidents such as short circuits and open circuits, and also facilitate future maintenance and repair.

- The normal operation of the touch screen depends on proper installation, setup, and operation. Before installation, please read the relevant content on installation, setup, and operation in detail to ensure the normal operation of the touch screen.

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