AAL-2 insulation monitor



Installation

- 1. Make sure the AAL-2 is correctly configured for the specific application.
- 2. For the auxiliary supply, connect the terminals to the correct voltage.
- 3. Connect PE to ground and P to a phase. If it is a 3-phase network, then you can connect any of the phases to P



WARNING

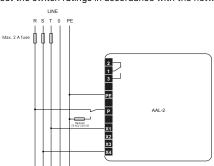


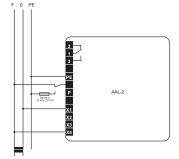
High-voltage MEGGER

If a high-voltage MEGGER is used, the ALL-2 must be disconnect at terminal P before tests are done. Failure to do so may result in damage to the AAL-2.

Test

Test the AAL-2 in accordance with IEC 61557-8 as shown in the wiring diagrams below. Use ¼ W resistance and set the switch ratings in accordance with the network voltages.





3- or 4-wire wiring diagram

2-wire wiring diagram

Adjustment of the set point

Use the potentiometer located on the back of the AAL-2 to adjust the warning set point. The potentiometer is in the upper left corner. If a precise warning is necessary, connect a known resistor equal to the required setting between P and PE. Adjust the potentiometer until the warning LED is activated.

Typical setting

Warning set point: 22 k Ω at 1 M range or 220 k Ω at 10 M range. Position the red marker pointer at the set point.

For more information:

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AAL-2

Insulation monitor

Quick start guide



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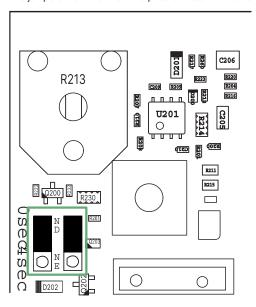
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Warning relay

Use the two jumpers on the PCB to configure the warning relay. Remove the rear cover to access the jumpers. The jumpers are under the R213 potentiometer on the PC board.



Configure the relay as either a normally energised contact (NE) or a normally de-energised contact (ND).

Warning delay

You can select a No warning delay or a 4 s warning delay from when the alarm occurs until the warning relay is

If the application has capacitance to ground, use the 4 s warning delay to avoid an incorrect warning when the monitor is turned on or when the capacitive load is turned on.

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Mounting instructions

Use the correct tools for mounting and do not exceed the recommended tightening torques.



CAUTION



Read the instructions

Read these instructions before installation of the insulation monitor, to avoid personal injury and damage to the equipment.

NOTICE



Warranty

The warranty is lost for products that are damaged due to incorrect tools used for mounting or excessive tightening of the terminals and screws.

Use a screwdriver to mount the insulation monitor. Only use two fingers on the screwdriver to make sure you do not exceed the maximum tightening torque.

You must not use an electrical screwdriver to mount the monitor.

Tightening torques

Terminals



Maximum tightening torques for terminals: 0.5 Nm

Mounting screws



Maximum tightening torques for terminals: 0.5 Nm