

General

Digital voltmeters-ammeters are designed to monitor both AC current value drawn by the loads and the voltage value of the relevant phase continuously.

Usage of Device and Working Principle

If the current value drawn by the load is below 5A, you can connect directly to the input terminals without current transformer. When the device is energized, firstly you need to enter the current transformer value in order to see the current values accurately. Press the menu button to enter the current transformer value and enter the value by pressing the Up or Down buttons. Then, the value is saved when you pressed the menu button and the current drawn by the load is shown on the display. It shows the phase-neutral supply voltage connected to A1 and A2 terminals on the device. Default value is set to 50/5A. If you make direct connection without current transformer under 5A, you need to ensure that the current transformer value is 5. The device shows the voltage value of 150V-260V AC.

**E ample:** Given that the current transformer value is 100/5A. When the device is energized, Press the menu button. Adjust the value to 100 on the display by pressing the Up and Down buttons. Press the menu button again. The current transformer value is adjusted as 100/5A in this way.

**DAV-96 / DAV-72:** Connect the current transformer output terminals to the inputs. When the device is energized, the current drawn by the load and phase-neutral supply voltage connected to N and L terminals are shown on the display. Make your order as adjusted according to the current transformer value that you want to use. The device shows the voltage value of 150V - 260V AC.

**DAV-96D / DAV-109 / DAV-209 / DAV-72D / DAV-107 / DAV-207:** Use the CT-60 (DAV-96D / DAV-72D), CT-120 (DAV-109 / DAV-107), CT-300 (DAV-209 / DAV-207) current transformer provided with the device. Connect the current transformer lead wires to input terminals of the device. The values of the device are adjusted based on the current transformer. So, don't use current transformers of different brands and models. When the device is energized, the current drawn by the load and phase-neutral supply voltage connected to N and L terminals are shown on the display. The device shows 150V-260V AC voltage value and 1A - 63A (DAV-96D / DAV-72D), 10A - 100A (DAV-109 / DAV-107), 10A - 250A (DAV-209 / DAV-207) current value. (The phase to be measured must be connected to the L- in terminal. The device shows the voltage value applied between 5V-300V AC.)

Maintenance

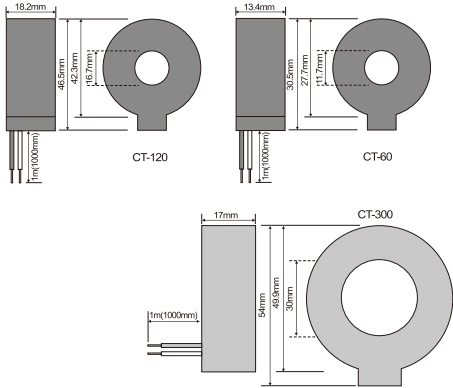
Switch off the device and release from connections. Clean the trunk of device with a swab. Don't use any conductor or chemical might damage the device. Make sure device works after cleaning.

Warnings

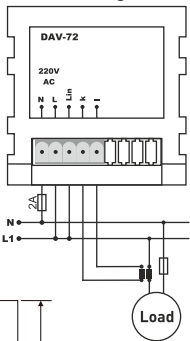
- Please use the device according to the manual.
- Don't use the device in wet.
- Include a switch and circuit breaker in the assembly.
- Put the switch and circuit breaker nearby the device, operator can reach easily.
- Mark the switch and circuit breaker as releasing connection for device.

Technical Specifications:

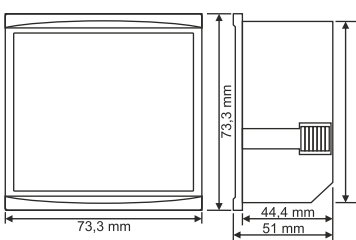
- Operating Voltage(Un) : 140V - 270V AC
- Operating Frequency : 50/60 Hz.
- Operating Power : <6VA
- Operating Temperature : -20°C .... +55°C
- Measurement Range : 100mA - 5.5A (DAV-96 / DAV-72)  
1A - 63A (DAV-96D / DAV-72D), 10A - 100A (DAV-109 / DAV-107)  
10A - 250A (DAV-209 / DAV-207)
- Measurement Precision : %1(V), %3(A)
- Display : 2 x 3 digit 14mm
- Connection Type : Plug-in terminal
- Cable Diameter : 1,5mm<sup>2</sup>
- Weight : Max. 220gr.
- Panel Hole Sizes : 91x91mm (DAV-96/D/109/209), 68x68mm (DAV-72/D/107/207)
- Mounting : Front panel mounted
- Operating Altitude : <2000meter



Connection diagrams



Dimensions for DAV-72 / DAV-72D / DAV-107 / DAV-207



Dimensions for DAV-96/DAV-96D/DAV-109 / DAV-209

