

VOLTMETER EVM-3S

Precautions For Installation and Safe Use

- Failure to follow those instructions will result in death or serious injury.
- Disconnect all power before working on equipment.
- When the device is connected to the network, do not remove the front panel.
- Do not try to clean the device with solvent or the like. Only clean the device with a dried cloth.
- Verify correct terminal connections when wiring.
- Electrical equipment should be serviced only by your competent seller.
- Only for rack panel mounting.

⚠ No responsibility is assured by the manufacturer or any of its subsidiaries for any consequences arising out of the use of this material.

EVM-3S (3-Phase Digital Voltmeter) :

EVM-3S is developed to measure voltage in three-phase systems. By using button on the front panel, phase-phase (L1-L2, L1-L3, L2-L3) and phase-neutral (L1-N, L2-N, L3-N) voltages can be selected and read from the display.

EVM-3S (72x72) use 3-4 Terminals (L1-N) for supply input. Thus L1-N voltage must be in operating voltage range (ΔU).

EVM-3S (96x96 and 48x96) has a separated connector for supply input.

Note: If between Phase-Neutral measurement of device is over 330.0 V or between Phase-Phase measurement of device is over 550.0 V, "Hi" is seen on the display.

Displaying Phase-Phase or Phase-Neutral Voltage



Press until **desired voltage** is displayed.

220

L1-N

380

L1-L2

-220

L2-N

-380

L2-L3

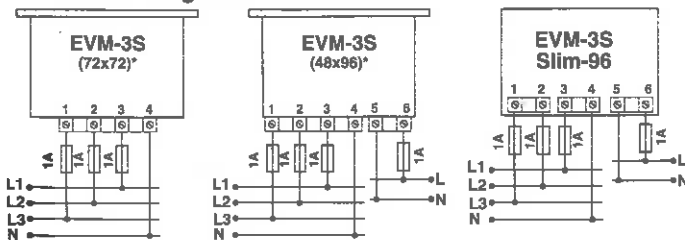
220

L3-N

380

L1-L3

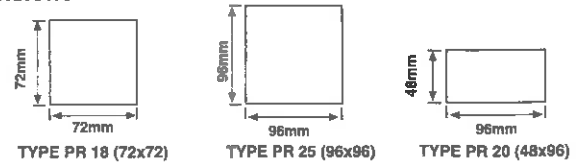
Connection Diagrams



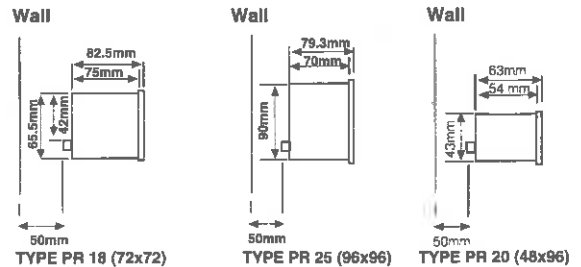
Warning :

- A switch or circuit breaker must be connected between the network and the auxiliary supply input of device.
- Connected switch or circuit breaker must be in close proximity to the device.
- Connected switch or circuit breaker must be marked as the disconnecting device for the equipment.
- The type of the used fuse must be FF type and the current of the used fuse must be 1A.
- No need of a ventilator in the installation area
- Do not use with generator.

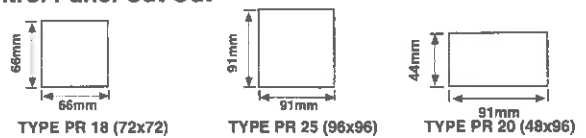
Dimensions



The area Measurements on The Control Panel



Control Panel Cut Out



Technical Data

Operating Voltage (U_n)*

Operating Range(ΔU)

Operating Frequency(f)

Accuracy

Measuring Input (V_{in})

Power Consumption(P_{cons})

Burden

Enclosure

Equipment Protection

Ambient Temperature

Degree of Protection

Installations

Wire Cross section (for terminals): 2.5 mm²

Dimensions

Weight

Please look at labels on the device

45-65 Hz

1% \pm 1 digit [(%10-%100) full scale]

10-300 V AC (Phase-Neutral)

10-500 V AC (Phase-Phase)

<4 VA

<1 VA (per phase)

Non-flammable

Double Insulation (□)

Measuring Category III

-5 °C: +50 °C

IP 40 (Front Panel)

Flush mounting with rear terminals

2.5 mm²

Type PR 18, PR 25, PR 20

0.28 kg (for PR 18)

0.30 kg (for PR 25)

0.25 kg (for PR 20)

Packaging Information

Pcs per Package : 16 Pcs (for PR 18)

Package Weight : 4.5 kg

Pcs per Package : 12 Pcs (for PR 25)

Package Weight : 3.6 kg

Pcs per Package : 20 Pcs (for PR 20)

Package Weight : 5 kg



* Please check the device label for proper value.

*Different supply voltages are adjustable upon request.

*EVM-3S (72x72) uses 3-4 Terminals (L1-N) for supply input. Thus L1-N voltage must be in operating voltage range (ΔU).

