

# DV – 72 - 01

## DIGITAL VOLTMETER & FREQUENCYMETER

► True RMS



### General Informations

The device measures the RMS value of the AC voltage and the frequency. It shows the voltage on the upper display and the frequency value on the bottom display simultaneously.

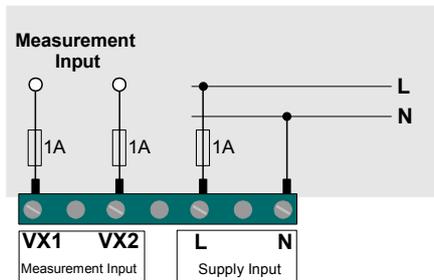
Voltage can be measured within the range of 10-500 V.  
Frequency can be measured within the range of 40-100 Hz

### Installation Instructions:

- Read the user instructions and cautions before installation.
- Be sure that the panel you are installing in is not energized.
- The device is designed to be installed to the front panel tap, use the small fixing apparatus to stabilize the device to the front panel tap.
- Do not under any case open the front panel of the device.
- Open the Terminals at the back side of the device after you are sure that no energy is connected to the panel. Connect the device as shown in the connection scheme.
- Be sure that the terminals are connected tight to the device.
- Use a switch between the energy network and the device's supply and measurement inputs in order to switch off the device if required. Use 1A FF fuse between switches and all inputs.

### DV-72-01

#### Connection Scheme :



### Technical Data

|                               |                                        |
|-------------------------------|----------------------------------------|
| Rated Voltage (Un)            | : 230 VAC                              |
| Operating Range               | : (0.8 – 1.1)xUn                       |
| Frequency                     | : 50/60 Hz                             |
| Supply Power Consumption      | : < 4 VA                               |
| Measurement input             | : 10 – 500 Vac                         |
| Measurement Frequency         | : 40 / 100 Hz                          |
| Measurement Power Consumption | : <1VA                                 |
| Measurement Sensitivity       | : 1% ± digit                           |
| Display                       | : Two lines of 3 Digits LED display    |
| Device Protection Class       | : IP20                                 |
| Connector Protection Class    | : IP00                                 |
| Temperature                   | : -5°C.....+50°C                       |
| Humidity                      | : 15% ..... 95% (without condensation) |
| Connection Type               | : To front panel tap                   |
| Dimensions                    | : 72x72x80 mm                          |

Dimensions For Hole On The Panel : 68 x 68 mm

### Warning !!!

- The message Er1 or Er2 on the screen means that the device has got a failure
- Clean the device using dry dust cloth after de-energizing the device
- Please read and follow the instructions mentioned in this user manual.

# DV – 72 - 03

## DIGITAL TRIPHASE VOLTMETER & FREQUENCYMETER

► True RMS



### General Informations

In triphase systems, the device measures the RMS value of the AC voltage and the frequency. It shows the voltage on the upper display and the frequency value on the bottom display simultaneously.

Using the button on the device phase – neutral and phase – phase voltage scan be seen.

Voltage can be measured within the range of 10-500 V.

**NOTE :** L1\_N is the device's supply input. For that reason the voltage applied to L1\_N should be the rated voltage in the system. Frequency measurement must be within the rate frequency ranges.

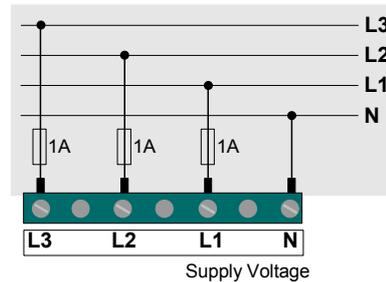


### Installation Instructions:

- Read the user instructions and cautions before installation.
- Be sure that the panel you are installing in is not energized.
- The device is designed to be installed to the front panel tap, use the small fixing apparatus to stabilize the device to the front panel tap.
- Do not under any case open the front panel of the device.
- Open the Terminals at the back side of the device after you are sure that no energy is connected to the panel. Connect the device as shown in the connection scheme.
- Be sure that the terminals are connected tight to the device.
- Use a switch between the energy network and the device's supply and measurement inputs in order to switch off the device if required. Use 1A FF fuse between switches and all inputs.

### DV-72-03

#### Connection Scheme :



### Technical Data

|                               |                                        |
|-------------------------------|----------------------------------------|
| Rated Voltage (Un)            | : 230 VAC ( L1-N)                      |
| Operating Range               | : (0.8 – 1.1)xUn                       |
| Frequency                     | : 50 / 60 Hz                           |
| Supply Power Consumption      | : < 4 VA                               |
| Measurement input             | : 10 – 500 Vac                         |
| Measurement Frequency         | : 40 / 100 Hz                          |
| Measurement Power Consumption | : <1VA (for each phase)                |
| Measurement Sensitivity       | : 1% ± digit                           |
| Display                       | : Two lines of 3 Digits LED display    |
| Device Protection Class       | : IP20                                 |
| Connector Protection Class    | : IP00                                 |
| Temperature                   | : -5°C.....+50°C                       |
| Humidity                      | : 15% ..... 95% (without condensation) |
| Connection Type               | : To front panel tap                   |
| Dimensions                    | : 72x72x80 mm                          |

Dimensions For Hole On The Panel : 68 x 68 mm

### Warning !!!

- The message Er1 or Er2 on the screen means that the device has got a failure
- Clean the device using dry dust cloth after de-energizing the device
- Please read and follow the instructions mentioned in this user manual.

### Display Functions

