

# **DIGITAL MULTIMETER**

## **FOR SINGLE PHASE**

### **MODEL DF73VF**

## **USER'S MANUAL**



## INTRODUCTION

This manual contains technical information and cautions for the user in order to ensure a correct use of the instrument and installation in safe conditions to obtain the best performance. The installation of the instrument must be carried out by a qualified person after reading the manual.



This symbol identifies all the warnings for a correct and safe use of the instrument as well as for the operator.



The factory certifies that the instrument is made in accordance to the European norm 89/336/EEC e 73/23/EEC and following updates.

## DESCRIPTION

The DF73VF multimeter is a panel mounted DIN72 3 digit LED AC voltage and frequency meter. The DF73VF displays voltage and frequency on two 3 digit lines. It is very simple to install and use.

### Features:

Input	1 for voltage 600V AC/750V AC max (2000V for 1 minute)
Voltage	With autoranging from 0,5 ÷ 600V AC 1 <sup>st</sup> scale from 0,5 ÷ 9V ± 2% ± 4 digit 2 <sup>nd</sup> scale from 9,01 ÷ 90,0V ± 1% ± 2 digit 3 <sup>rd</sup> scale from 91,0 ÷ 600V ± 1% ± 2 digit <u>All the measurements are TRMS</u>
Frequency	40 ÷ 400Hz ± 2% ± 4 digit from 5 ÷ 600V
Power Supply	115-230V AC (-20% + 15%) 45-65Hz 1,2VA - Standard 24-48V AC (-20% + 15%) 45-65Hz 1,2VA
Connections	Screw terminal blocks, distance from wire to wire 5mm, max 10A, 2.5 mm <sup>2</sup> flexible wire (4mm <sup>2</sup> non-flexible wire), insulation 1000V rms between terminals (3kVrms/1 minute). IMP-UL, fire class UL94-V0.
Case	ABS grey, Fire class UL94-V2, front panel in polyester with texturing treatment
IP Ratings	Front side IP50 - Terminal blocks IP20
Size	Front: 72 x 72mm Depth: 95mm Weight: c. 220g Cut-out: 67mm X 67 mm
Installation	Temperature: 0 / +50 deg. C Storage: -10 / +80 deg. C Relative Humidity: 95% at 40 deg. C without condensing Isolation voltage between power supply and input 5.6kV (cat III)

## INSTALLATION

Before installing and wiring the DF73VF multimeter, you should check the following:

- Make sure that there was no damage during transport.
- Make sure the product is the one you ordered by checking the model specifications and use.

## SAFETY PRECAUTIONS



Before installing the multimeter, be sure you have read this manual. A qualified person according to national safety laws must install this multimeter. If you have suspect that the instrument has been damaged during transport or other, return it immediately to the factory for repair. All repairs and/or maintenance operations must be carried out by a qualified and authorised person.

## INSTALLATION PROCEDURES

This instrument is made for panel mounting, Connecting wires must be installed according to the national safety laws and in compliance with the EMC norms. Care must be taken when the instrument is powered. The instrument is made for working in an ambient temperature between 0-50 deg.C. Be sure to locate the instrument in a place not subject to strong vibration.

## PANEL CUT-OUT

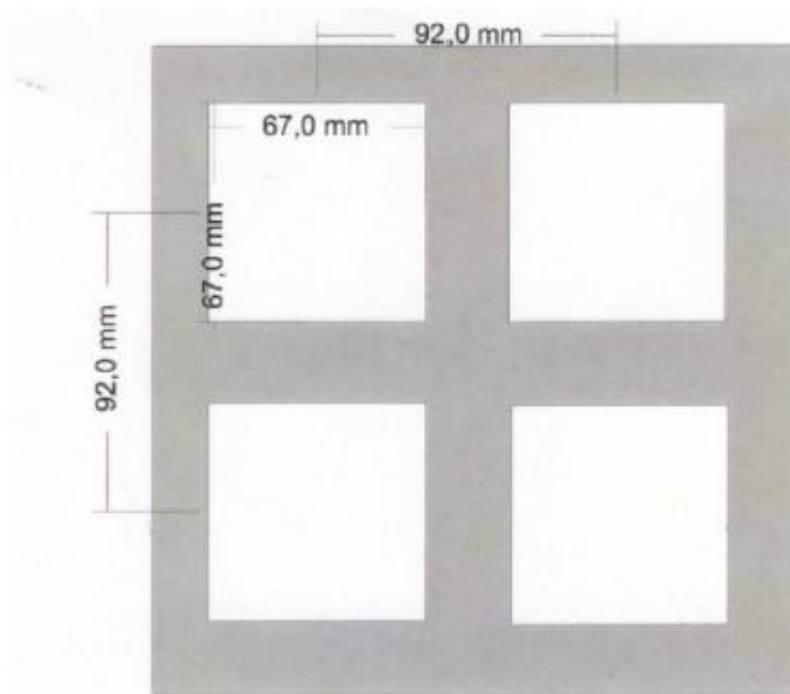


Fig. 1 – Panel cut-out dimensions and minimum spacing

## TERMINAL BLOCKS

The DF73VF multimeter is equipped with screw terminal blocks and the maximum current rating is 10A. The connection is fitted for 2,5 sqmm flexible wire (or 4sqmm non-flexible wire), max rated voltage 1000Vrms (insulation 3kVrms/1 minute) IMQ-UL, fire class V0-UL94.

## HOW TO USE

The DF73VF multimeter is very easy to use. Connect the P-N or P-P and the value will display.

- Voltage input: autoranging from 0,5 ÷ 600V AC. It is picked up from the Phase Connection.

## WIRING DIAGRAM

