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## DMM-4T

### MULTIMETERS

#### three-phase type



5 9 0 8 3 1 2 1 5 9 1 3 4 4

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F&F products are covered by an 24 months warranty from date of purchase

#### PURPOSE

Multimeter DMM-4T intended for monitoring parameters of three-phase electrical network.

#### FUNCTIONS

- \* independent current measurement for each phase
- \* direct measurement 0÷5A
- \* indirect measurement using current transformers in standard current work with 1÷9000/5A range
- \* setting indicator to proper current transformer values using three buttons on the indicator's front
- \* phase voltage and phase to phase voltage measurement
- \* phase frequency measurement
- \* selection of indicated voltage and frequency values for a single phase using button on indicator's front

#### SETTING PRIMARY LOAD VALUE OF CURRENT TRANSFORMER:

Push the button >2sec. Multimeter pass to setting primary load value of current transformer mode. This value is set for all current transformers (3). In memory of multimeter are save value of primary standard load from range 1÷9000A.

By buttons choose value of load for connected transformer. By button enter settings

#### ATTENTION!:

- For load <5A and direct connection (without current transformer) set value 5.000 (five)

- Function **CLEAR** isn't activated.

#### TECHNICAL DATA

supply	230V AC
max. current of direct measurer for single phase	5A
max. current of indirect measurer	
depended on applied current transformer	
possible type of transformer to connect	1÷9000/5A
measured frequency range	10÷100Hz
measured voltage range	0÷400V AC
precision	1%±1 digit
display	4×segment LED 5×9mm
power consumption	3VA
working temperature	-5÷50°C
dimensions	96×96×92mm
fixing hole	92×92mm

#### FUNCTIONING

Multimeter present current load for each phase chosen by user : phase voltage, phase to phase voltage or frequency. Choice of displayed voltage make by button which is on the right side of voltage indicator. Line — on the left side of multimeters, define phase for which is displayed phase voltage. Two lines = on the left side of voltage indicator, define phases for which displayed phase to phase voltage

#### ASSEMBLY

1. Take OFF the power.
2. Take OFF side assembly grip of multimeter.
3. Put ON multimeter in assembly hole.
4. Take ON a assembly grip and work to that flat, for which will assembly multimeter.
5. Supply of multimeter connect with marks to joints 1 and 2.
6. Controlled phases L1, L2, L3 and N connect to measurements joints 3, 4, 5, 6,.
7. Current of all phases connect to opportunelies joints 7÷12 with marks:
  - for load <5A by multimeter
  - for load >5A by measurements current transformers (max load 5A). Needed is use the current transformers with the same nominal parameters for each phase.
8. By buttons set value of primary load for used current transformers that a multimeter displayed real values of load in mensuration system.

#### WIRING DIAGRAM

