

MULTIMET-01-96 *Multimeter & Power Meter*



SPECIFICATIONS

- Microprocessor based
- Measurement of 3 phase electrical quantities (VL-N, A, CosΦ, VL-L, Hz, W, VAR, VA)
- Correct learning of current transformer polarity (even if (k,I) is connected in reverse direction)
- Setting of current and voltage transformer ratios
- Easy access to menus
- Reduces both number of measurement equipment used in the panel and connection time
- Lowers electrical panel costs

96x96



Voltage (VL-N)

● VL-N

L1 220.0 U1N
L2 220.0 U2N
L3 220.0 U3N

Current(A)

● A

L1 328.7 I1
L2 342.3 I2
L3 320.0 I3

(Power Factor)

● P.F

L1 -0.99 PF1
L2 0.97 PF2
L3 0.99 PF3

Voltage(VL-L)

● VL-L

L1 387.2 U12
L2 381.5 U23
L3 380.1 U31

Frequency(Hz)

● Hz

L1 050.0 f1
L2 050.0 f2
L3 050.0 f3

Active Power(P)

● W

L1 72.42 W1
L2 83.51 W2
L3 75.84 W3

Reactive Power(Q)

● VAR

L1 -24.2 VAR1
L2 18.51 VAR2
L3 12.24 VAR3

Apparent Power(S)

● VA

L1 95.12 VA1
L2 92.34 VA2
L3 98.11 VA3

General
Multimet gives the ability of tracking electrical parameters for 3 phase systems such as, phase currents, phase-neutral & phase-phase voltages, frequency, power factor, active powers, reactive powers and apparent powers.

Current and voltage transformer ratios can be set by the user. Using the directions buttons, desired parameters can be accessed easily. On the other hand, its displays make it possible to track values from long distance.

MEASURED ELECTRICAL PARAMETERS

(VL-N, A, CosΦ, VL-L, Hz, W, VAR, VA)

Using the direction buttons, above parameters are easily accessed step by step. Appropriate LED lights on and value of each phase is showed on the display at the same time instant.

TECHNICAL DATA:

Rated Voltage (Un) : 220 VAC
Operating Range : (0.8 – 1.1)xUn
Frequency : 50/60 Hz
Supply Power Consumption : < 6 VA
Measurement Power Consumption : < 1 VA
Voltage Measurement Range : (Phase-Neutral) 30-300 VAC, 45-90 Hz
(Phase-Phase) 30-600 VAC, 45-90 Hz
Current Measurement Range : 50mA – 6 Amp. AC
Display Range : 0 – 999.9 kV
0 – 999.9 M (W, VAR, VA)
(Cosφ) 0.00 – 1.00 ind. & cap.

Current Measurement Range

Display Range

Minimum Measurement Values

Measurement Sensitivity : 1% ± digit
Voltage Transformer Ratio : 1 1000
Current Transformer Ratio : 5/5 10000/5 A
Display : 4 Digits LED display
Device Protection Class : IP20
Connector Protection Class : IP00
Ambient Temperature : -5°C.....+50°C
Humidity : 15% 95% (without condensation)
Connection Type : To front panel tap
Dimensions : 96x96x80 mm

ACCESSING PARAMETERS:

Using the direction buttons, it is possible to move up and down in the menu. When set button is pressed down for 3 seconds, parameter setting menu is accessed and to set any of the parameters, first set button is pressed, then using the directions buttons, value is increased/decreased. When desired value is reached, it is stored by pressing the set button. Using the direction buttons.

Ct: Current transformer value : (5...10000)

The current transformer's primary value should be entered. For example if 500/5A current is used then 500 must be entered.

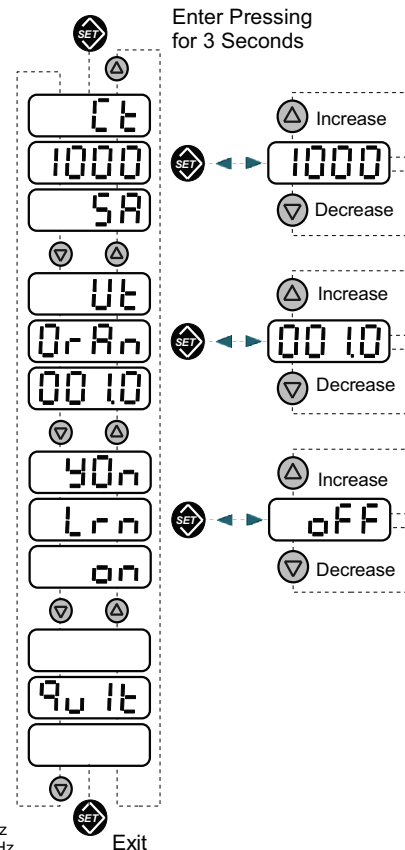
Ut: Voltage transformer value : (1...1000)

If no voltage transformer is used, this parameter must be left as 1.

YOn Lrn: Current transformer polarity direction learning: (on – oFF)

If it is " on " then the device would learn the direction automatically. If the device mounted in new panel or the polarity somehow changed then it learns the new direction. If off then the device would learn the direction once and never learn it again. Off position is required for some loads. If there would be a problem in the current transformer direction then the current transformer inputs should be switched.

Note: If no button is pressed for 4 minutes under this menu, devices automatically quits programming menu.



Connection :

