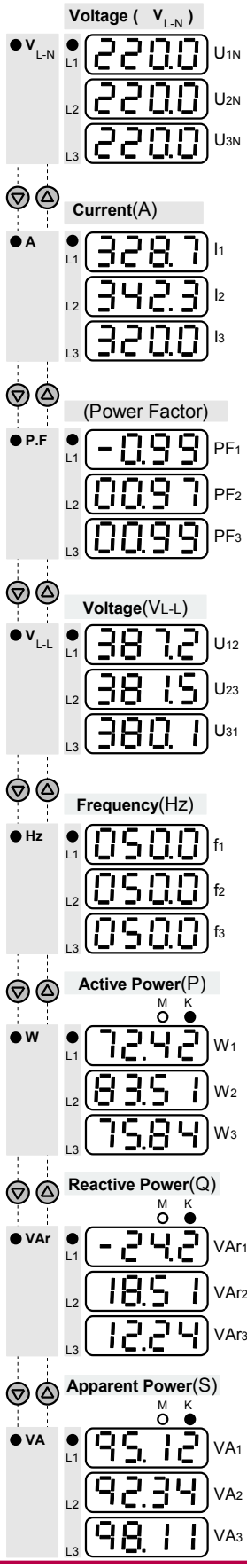
MULTIMET-01-96 Multimeter & Power Meter

KAEL ®

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,l) 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



General

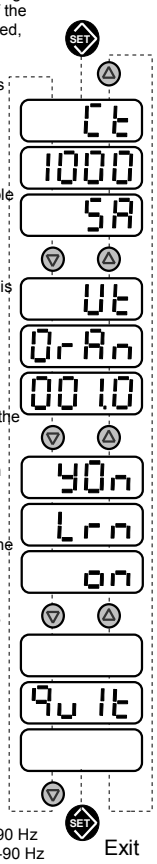
Multimet gives the ability of tracking electrical parameters for 3 phase systems such as, phase currents, phase-neutral & phase-phase voltages, frequency, power factor, active powers, reactive powers and apparent powers.

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.

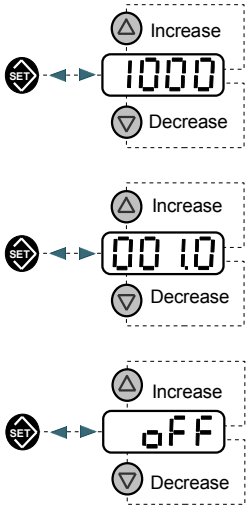
MEASURED ELECTRICAL PARAMETERS

(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.

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 tranformer's primary value shouldbe entered. For example if 500/5A cuurent 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 monted 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 shuld be switched.
Note: If no button is pressed for 4 minutes under this menu, devices automatically quits programming menu.



Enter Pressing for 3 Seconds



TECHNICAL DATA:

Rated Voltage (Un)	: 220 VAC
Operating Range	: (0.8 – 1.1)xUn
Frequency	: 50 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	: (Secondary current) 50mA – 6 Amp. AC
Display Range	: 0 – 999.9 kV 0 – 999.9 M (W, VAr, VA) (Cosφ) 0.00 – 1.00 ind. & cap.
Minimum Measurement Values	: 50 mA, 30V
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

Connection :