## Overview Setting Menu:

This is the overview setting menu after you have pressed SET buttons for 5 seconds:

| Item | Level 1 | Level 2 | Level 3 | Description |
| :---: | :---: | :---: | :---: | :---: |
| 1.1 | SET | disp | 0 to 10 | Set main display page. Default $=0$. |
| 1.2 |  | Clr.E | - | Clear Energy Values |
| 1.3 |  | L-bL | Off / On | Constantly turn On LED backlight or Off (power saver - after 1 minute). Default = Off. |
| 1.4 | INP | NET | N. 34 / N. 33 | Change electrical network between 3 phase 3 wires or 3 phase 4 wires. Default $=$ N. 34 . |
| 1.5 |  | U.SCL | 400 / 100 V | Change voltage measurement 400 V (direct) or 100 V (with VT). Default $=400$. |
| 1.6 |  | I.SCL | 5/1A | Change current measurement up to 5A or 1A. Default = 5 . |
| 1.7 |  | PT | 1 to 9999 | Is the Voltage Transformer Ratio. Example: $11000 \mathrm{~V} / 110 \mathrm{~V}=100$ Default $=1$. |
| 1.8 |  | CT | 1 to 9999 | Is the Current Transformer Ratio. Example: 200A/5A = 40 Default $=1$. |
| 1.9 | CONN | ADDR | 1 to 247 | Change the DPM address for Modbus communication. Default $=001$. |
| 1.10 |  | BAUD | $\begin{aligned} & \hline 2400 / 4800 / \\ & 9600 \\ & \hline \end{aligned}$ | Change the Baud Rate for Modbus communication. Default $=9600$. |
| 1.11 | DO-1 | $\begin{aligned} & \hline \text { Address } \\ & (0-250) \\ & \hline \end{aligned}$ | 0 to 9999 | Default $=1000$. |

## Key functions:

1) SET key = enter / confirm
2) Up key = increase / next page
3) Down key = decrease / previous page
4) Left key = return

## Main Display Page setting (Select which parameter to be shown on 1st page):

| NUMBER 0 | NUMBER 1 | NUMBER 2 |
| :--- | :--- | :--- |
| U (voltage) | ( (current) | (Real / True Power) |
| NUMBER 3 | NUMBER 4 | NUMBER 5 |
| Q (Var / Reactive Power) | S (VA / Apparent power) | F cos 日 (Frequency) |
| NUMBER 6 <br> $\cos \theta$ (Power Factor) | NUMBER 7 <br> SPQ (Net True Power, Reactive <br> Power, Apparent Power) | NUMBER 8 <br> U (Phase to phase Voltage) |
| NUMBER 9 <br> DIDO (DIGITAL IN/OUTPUT) | NUMBER 10 <br> Auto Swap every 5 seconds |  |

1) Press \& Hold SET Key for 5 seconds
2) Select (up/down key), Code 0001 \& press SET key
3) Select SET \& press SET key.
4) Select DISP \& press SET Key.
5) Select (up/down) for desired value \& press Left key few times until you see SAVE YES
6) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit.

Note: on main page, shows kWh (Real / True Energy) + / - (2 direction) \& kVARH (Reactive Energy) +/- (2 direction). Use Left Key to swap between selections.

## Reset Energy Values

1) Press \& Hold SET Key for 5 seconds
2) Select (Up/down key), Code 0001 \& press SET key
3) Select SET \& press SET key.
4) Select Clt.E \& press SET Key.
5) Press Left key until you see SAVE YES
6) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit

## Change Grid Network Format Settings: 3 phase 3 wires / 3 phase 4 wires:

7) Press \& Hold SET Key for 5 seconds
8) Select (Up/down key), Code 0001 \& press SET key
9) Select Inp by pressing Up/Down key \& press SET key
10) Select NET by pressing Up/Down key \& press SET key
11) Select n. 33 (for 3 phase 3 wires) or n. 34 (for 3 phase 4 wires - by default) \& press Left key few times until you see SAVE YES.
12) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit.

## Change Ratio of CT (Current Transformer):

1) Press \& Hold SET Key for 5 seconds
2) Select (Up/down key), Code 0001 \& press SET key
3) Select Inp by pressing Up/Down key \& press SET key
4) Select Ct by pressing Up/Down key \& press SET key
5) By default CT = 1 means measuring 5 A . If using $C T$ rating of 150 A , key in value $150 \mathrm{~A} / 5 \mathrm{~A}=30$ )
6) Select (up/down) for desired value \& press Left key few times until you see SAVE YES
7) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit.

## Change Ratio of VT (Voltage Transformer):

1) Press \& Hold SET Key for 5 seconds
2) Select (Up/down key), Code 0001 \& press SET key
3) Select Inp by pressing Up/Down key \& press SET key
4) Select Pt by pressing Up/Down key \& press SET key
5) By default $\mathrm{Pt}=1$ means measuring 110 V .
6) Warning: If measure high voltage you cannot directly connected power line to Digital Power Meter! If measure high voltage such as 11 kV , you need a voltage transformer for each phase to step down to safe voltage. If using VT rating of $11 \mathrm{kV} / 110 \mathrm{~V}$, key in value $11 \mathrm{kV} / 110 \mathrm{~V}=100$ )
7) Select (up/down) for desired value \& press Left key few times until you see SAVE YES
8) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit.

## Change Device Address (Default address: 001):

1) Press \& Hold SET Key for 5 seconds
2) Select (Up/down key), Code 0001 \& press SET key
3) Select Conn by pressing Up/Down key \& press SET key
4) Select Addr by pressing Up/Down key \& press SET key
5) Select (up/down) for desired address \& press Left key few times until you see SAVE YES
6) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit.

## Change Device Baud Rate (Default baud rate: 9600):

1) Press \& Hold SET Key for 5 seconds
2) Select (Up/down key), Code 0001 \& press SET key
3) Select Conn by pressing Up/Down key \& press SET key
4) Select Baud by pressing Up/Down key \& press SET key
5) Select (up/down) for desired Baud Rate (2400/4800/9600) \& press Left key few times until you see SAVE YES
6) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit.

## Add Relay Switch (DO) Alarm Settings:

1) Press \& Hold SET Key for 5 seconds
2) Select (Up/down key), Code 0001 \& press SET key
3) Select do-1 by pressing Up/Down key \& press SET key
4) Values 000 shows. This value represents function key below:

| 001 | 003 | 005 |
| :--- | :--- | :--- |
| $-1^{\text {st }}$ phase High voltage alarm | $-2^{\text {nd }}$ phase High voltage alarm | $-3^{\text {rd }}$ phase High voltage alarm |
| 002 | 004 | 006 |
| $-1^{\text {st }}$ phase Low voltage alarm | $-2^{\text {nd }}$ phase Low voltage alarm | $-3^{\text {rd }}$ phase Low voltage alarm |
| 007 | 009 | 011 |
| $-1^{\text {st }}$ phase High current alarm | $-2^{\text {nd }}$ phase High current alarm | $-3^{\text {rd }}$ phase High current alarm |
| 008 | 010 | 012 |
| $-1^{\text {st }}$ phase Low current alarm | $-2^{\text {nd }}$ phase Low current alarm | $-3^{\text {rd }}$ phase Low current alarm |

5) Select (Up/down key), after set function key, press SET key
6) For Current setting it is calculate by Ratio. For example alarm at 240 A for a $300 / 5 \mathrm{~A} \mathrm{CT}$, key in value $800=(240 / 300 \times 1000)$. Select (Up/down key) to increase or decrease value.
7) For Voltage setting it is calculate by Ratio (phase to phase voltage). For example alarm at 300 V , key in value $750=(300 / 400 \times 1000)$. Select (Up/down key) to increase or decrease value.
8) After press Left key few times until you see SAVE YES
9) When SAVE YES on screen, press SET key to SAVE or press Left key to cancel \& exit.
