



User Manual :
Power Logger & Internet Gateway
3000 Series Portable

Operation Guide: Gateway 3000 Portable Unit



USER MANUAL

1. Power up the system from one of the following methods:

A. Power Up from "3 PHASE 01" Input

- a. Connect the 10-core Voltage & Current Cable to "3 PHASE 01" connector.
- b. Ensure that the other end of the cable is connected to Voltage & Current source.
- c. At the selector switch, turn to position "3P".
- d. Supply to the portable unit will be taken from RED phase.

B. Power Up from "AC SUPPLY" Input

- a. Connect the 3-core AC Supply Cable to "AC SUPPLY" connector.
- b. Ensure that the other end of the cable is connected to AC source.
- c. At the selector switch, turn to position "AC".

2. "AC STATUS" indicator light will turn on if power supply is present.
3. Turn on "DC STATUS" to run the system.
4. Turn on "BATTERY STATUS" for power supply backup.
5. "POWER" LED will turn on when the system is turned on.
6. "RS485" LED will blink if the system is able to communicate with "POWER METER 01".
7. "COMM" LED will blink if the system is able to communicate with iSCADA Server in the Internet.
8. The default Internet connection is via GPRS through the modem "MODEM". Ensure that a Data SIM card is inserted into the SIM slot of the modem.
9. If Internet connection via LAN is required, configurations need to be done through the iSCADA Gateway 3000 User Web Configuration, using a PC connected with a cross LAN cable to the "LAN" port.
10. To reset the system network settings to default, press the "IP Reset" switch while "POWER" LED is on. Both "POWER" and "COMM" LED will blink slowly for about 3 to 5 seconds. Below is the default system networks settings.
 - IP Address: 192.168.1.180
 - Subnet Mask: 255.255.255.0
 - Gateway: 192.168.1.1
11. Expansion of additional Modbus devices can be done via "RS485" connector.

Programming Guide: Power Meter



Key Functions

Key	In Set (Programming) Mode	In Measurement Mode
Right ▶	To select the value and to accept the value.	No action
Down ▼	To edit the value/system type down-ward in edit mode and scroll through the parameters.	To scroll down the pages to look at different parameters.

Entering Configuration (Setup) Mode

Step	Action	Display Reads	Range / Options / Comments
1	Press RIGHT and DOWN keys together to enter the setup.	Clr.SET (Setup/Clear).	Press RIGHT and DOWN together.
2	Press DOWN key.	0000 PS (Password) with first digit "0" blinking.	
3	Press DOWN key in order to increment first digit to "1".	Password = 1000 (Default/Factory set).	0000 the corresponding blinks.
4	Press DOWN key four times to accept the password.	Clr I	This option is to clear the energy. Press right key to clear. Press down key to enter setup.
5	Press DOWN key to go to next page.	StAr. EL	StAr means STAR system. Meter would display the last setup system.
6	Press RIGHT key to select other option.	"StAr. EL" blinking. Now other options can be chosen.	Options: StAr (Star/Wye), dELt (Delta) /1.ph (Single Phase).

7	Press DOWN key to change the system type.	StAr / dELt /1.ph	
8	Press RIGHT key to memorize the system type required.	Blinking stops. Displays steady system type.	
9	Press DOWN key to go to next page.	XXXX P.P (415.0 default setup)	Indicates the value in first four digits & PT primary in last two digits. Programmable range: 100V to 99KV.
10	RIGHT key to edit the value.	Editable digit blinks.	
11	Press DOWN key to select the required value.	Changed digit blinks.	
12	Press RIGHT key to accept the changed value.	Blinking digit stabilizes.	Follow the same procedure to set the rest digits.
13	Press DOWN keys.	Decimal point blinks.	Set Kilo, while setting decimal point. Eg: To set 11.00KV, set first 4 digits (1100). Keep pressing DOWN key to place decimal point at appropriate location.
14	Press RIGHT key to accept set the value.	415.0V.	
15	Press DOWN to go to next parameter.	XXXX P.S (415.0 default setup).	PT secondary. Follow the procedure as explained from No. 9 to 11 to edit. Range: 50V to 550V.
16	Press DOWN key to go to next parameter.	XXXX C.P (5.000 default setup).	CT primary. Follow the procedure as explained from No. 9 to 11 to edit. Range: 1A to 50KA.
17	Press DOWN key to go to next parameter.	XXXX C.S (5.000 default setup).	CT primary. Follow the procedure as explained from No. 9 to 11 to edit. Range: 1A to 5A.
18	Press DOWN key to go to next parameter.	No r.L.	Reverse lock (Blocks proportionate energy accumulation in case the CT polarity reverse. Option: no (NO) / YES (Default NO).
19	Press DOWN key to go to next parameter.	ArthUA (Method of VA measurement).	Arithmetic (Arth)/Vector harmonics (UEC.H)/Vector (Uctr) can be selected using down keys.
20	Press DOWN key to go to next parameter.	XXXX bA (9600 default setup)	Define the baud rate. Option: 600, 1200, 2400, 4800, 9600, 19.2K (Communication speed).
21	Press DOWN key to go to next parameter.	EVENPr (Even Parity).	EVEN (even)/odd (odd)/no (no parity).
22	Press DOWN key to go to next parameter.	1.0000dU.	Defines the (ID) communications identification number. Option: 1 – 247.
23	Press DOWN key to go to next parameter.	----PS.	Password user definable. Caution: If password other than the default is set, then memorize it. Meter will reject programming if tried with wrong passwords. In such case meter needs to be reset & recalibrated at factory only.

24	Press DOWN key to go to next parameter.	SAVE Y – Follow the procedure as explained from No. 9 to 11 to edit.	To save the setting made. Option: Y (Yes) / N (No).
25	Press RIGHT key to memorize/store the changes done.	Display returns to run mode.	If "n" (No) is selected then meter enters into run mode without secondary affecting any edited values in the setup.

Clearing The Integrator

To clear parameters of the iM1000 from the front panel, press RIGHT and DOWN keys together, and Clr.SET is displayed and press RIGHT key again "Clr" (Clear) is shown on the display. Press RIGHT key and meter will prompt to YES or NO. Press DOWN key for changing YES or NO and press RIGHT key to do the operation. The cleared value is transferred to OLD register for future references. Performing the clear operation twice will clear the data in OLD register also.