



There are 2 dedicated keys labeled as (●) & (◀). Simply press these keys to read parameters. Units of corresponding parameter on display will automatically glow.

Key-1	●	Used for scrolling main pages
Key-2	◀	Used for scrolling sub pages
Key-3	◀	Used for display crc/serial no.

Key Press	Parameter Key	Online page description
Online page description for 3P4W		
At Power on	-	Displays line to neutral voltage of three phases
Press (●) Key	Press (●) Key	Displays line to line voltage of three phases
Press (●) key (1 st time)	-	Display Current of three phases
Press (●) key (2 nd time)	-	Display average of three phase line to neutral voltage, current, PF & frequency
	Press (●) Key	Display average of three phase line to line voltage, current, PF & Frequency
Press (●) key (3 rd time)	-	Display Power factor of three phases & Frequency
	Press (●) Key (1 st time)	Display active power of three phases
	Press (●) Key (2 nd time)	Display reactive power of three phases
	Press (●) Key (3 rd time)	Display apparent power of three phases
	Press (●) Key (4 th time)	Display total active power
	Press (●) Key (5 th time)	Display total reactive power
	Press (●) Key (6 th time)	Display total apparent power
	Press (●) Key (7 th time)	Display max demand of active power
	Press (●) Key (8 th time)	Display max demand of reactive power
	Press (●) Key (9 th time)	Display max demand of apparent power
Press (●) key (4 th time)	-	Display import & export active energy of 1 st phase
	Press (●) Key (1 st time)	Display import & export active energy of 2 nd phase
	Press (●) Key (2 nd time)	Display import & export active energy of 3 rd phase
	Press (●) Key (3 rd time)	Display total import active energy of three phase
	Press (●) Key (4 th time)	Display total export active energy of three phase
	Press (●) Key (5 th time)	Display total active energy of three phase MAINS (SRC1)
	Press (●) Key (6 th time)	Display total active energy of three phase DG (SRC2)
	Press (●) key (5 th time)	-
Press (●) Key (1 st time)	Press (●) Key (1 st time)	Display import & export reactive energy of 2 nd phase
	Press (●) Key (2 nd time)	Display import & export reactive energy of 3 rd phase

Key Press	Parameter Key	Online page description
Press (●) key (5 th time)	Press (●) Key (3 rd time)	Display total import reactive energy of three phase
	Press (●) Key (4 th time)	Display total export reactive energy of three phase
	Press (●) Key (5 th time)	Display total reactive energy of three phase MAINS (SRC1)
	Press (●) Key (6 th time)	Display total reactive energy of three phase DG (SRC2)
Press (●) key (6 th time)	-	Display apparent energy of 1 st phase
	Press (●) Key (1 st time)	Display apparent energy of 2 nd phase
	Press (●) Key (2 nd time)	Display apparent energy of 3 rd phase
	Press (●) Key (3 rd time)	Display total apparent energy of three phase MAINS (SRC1)
	Press (●) Key (4 th time)	Display total apparent energy of three phase DG (SRC2)

Key Press	Parameter Key	Online page description
Online page description for 3P3W		
At Power on	-	Displays line to line voltage of three phases
Press (●) key (1 st time)	-	Display Current of three phases
Press (●) key (2 nd time)	-	Display average of three phase line to line voltage, current, PF & Frequency
	-	Display Effective Power factor of three phases
Press (●) key (3 rd time)	Press (●) Key (1 st time)	Display total Active power
	Press (●) Key (2 nd time)	Display total reactive power
	Press (●) Key (3 rd time)	Display total apparent power
	Press (●) Key (4 th time)	Display max demand of active power
	Press (●) Key (5 th time)	Display max demand of reactive power
	Press (●) Key (6 th time)	Display max demand of apparent power
Press (●) key (4 th time)	-	Display total import active energy of three phase
	Press (●) Key (1 st time)	Display total export active energy of three phase
	Press (●) Key (2 nd time)	Display total active energy of three phase MAINS (SRC1)
	Press (●) Key (3 rd time)	Display total active energy of three phase DG (SRC2)
Press (●) key (5 th time)	-	Display total import reactive energy of three phase
	Press (●) Key (1 st time)	Display total export reactive energy of three phase
	Press (●) Key (2 nd time)	Display total reactive energy of three phase MAINS (SRC1)
Press (●) key (6 th time)	-	Display total apparent energy of three phase MAINS (SRC1)
	Press (●) Key (1 st time)	Display total Apparent energy of three phase DG (SRC2)

Key Press	Parameter Key	Online page description
Online page description for 1P2W		
At Power on	-	Displays line to neutral voltage of Selected single phase
Press (●) key (1 st time)	-	Display Current of Selected single phase
Press (●) key (2 nd time)	-	Display line to neutral voltage, current, PF & Frequency of Selected single phase
	-	Display power factor & Frequency of Selected single phase
Press (●) key (3 rd time)	Press (●) Key (1 st time)	Display active power of Selected single phases
	Press (●) Key (2 nd time)	Display reactive power of Selected single phases
	Press (●) Key (3 rd time)	Display apparent power of Selected single phases
	Press (●) Key (4 th time)	Display max demand of active power
	Press (●) Key (5 th time)	Display max demand of reactive power
	Press (●) Key (6 th time)	Display max demand of apparent power
Press (●) key (4 th time)	-	Display import & export active energy of Selected single phase
	Press (●) Key (1 st time)	Display total Active energy MAINS (SRC1)
	Press (●) Key (2 nd time)	Display total Active energy DG (SRC2)
Press (●) key (5 th time)	-	Display import & export reactive energy of Selected single phase
	Press (●) Key (1 st time)	Display total reactive energy MAINS(SRC1)
Press (●) key (6 th time)	-	Display selected single phase apparent energy MAINS (SRC1)
	Press (●) Key (1 st time)	Display selected single phase apparent energy DG (SRC2)

Press key ◀ for 3 seconds to toggle between Automatic and Manual mode.
Note : By default unit operates in manual mode. In automatic mode online pages scroll automatically at the rate of 5 seconds per page. In automatic mode when any key is pressed, unit temporarily switches to manual mode and the appropriate page is displayed.

Press ◀ key . to display 8 digit serial number only for 5sec at 2nd & 3rd row of display.

There are two dedicated keys with symbol ● & ◀ Use these 2 keys to enter into configuration menu

Note : Setting should be done by professional after going through this user manual and having understood the application situation

For the configuration setting mode :

- Use (●) & ◀ key for 3 sec to enter and exit from configuration menu
- Use (●) key to increment the configuration parameter value
- Use (●) key to edit the value and shift the cursor to next digit, after last digit cursor goes back to 1st digit.
- Use ◀ key for enter & save the parameter value & go to the next page

Config. page	Function	Range or selection	Factory setting
1	Password	0000 to 9998	1000
2	Change Password	No / Yes	No
2.1	New Password	0000 to 9998	--
3	Network Selection	3P4W	3P4W
		3P3W	
		1P2W-P1	
		1P2W-P2	
4	Demand interval method	Sliding / Fixed	Sliding
		1 to 30	15
5	Demand interval duration	1 to 30 min	1
6	Demand interval length	1 to 30 min	1
7	POP Type	Kwh-Total/IP/EP ; Kvarh-Total/IP/EP	Total varh
8	Pulse weight	1/10/100/1000	1000
9	Pulse duration	0.01 to 0.5 sec	0.01
10	Slave Id	1 to 255	1
11	Baud Rate	2400,4800, 9600,19200 & 38400 bps	9600
12	Parity	None, Odd, Even	None
13	Stop Bit	1 or 2	1
14	Backlight	0 to 7200	0
15	Factory default	No / Yes	No
16	Reset Energy and max Dmd	No / Yes	No
16.1	Password	0001 to 9999	1001
16.2	Reset Energy and max Dmd	SRC1/SRC2	SRC1
16.3	Reset Kwh	No / Yes	No
16.4	Reset Kvarh	No / Yes	No
16.5	Reset Kvarh	No / Yes	No
16.6	Reset max demand	No / Yes	No

Note: For resetting energy parameter user will be promoted for password. If correct password is entered. User will be able to reset all energy parameters. This password is

Network selection in configuration mode	Wiring
3P4W	3P4W, 1P2W, 2P3W
3P3W	3P3W
1P2W	1P2W (P1/P2/P3)

Pulse output	Type	Description	Pulse Width
POP1	Fixed 1000 Pulses	Per kWh	0.01 to 0.5sec
POP2	Configurable 1/10/100/1000 Pulses	Per kWh - Total/IMP/EXP	0.01 to 0.5sec
		Per kVarh - Total/IMP/EXP	

Readable parameters for Communication Model Only : [Length (Register) : 2 ; Data Structure : Float]

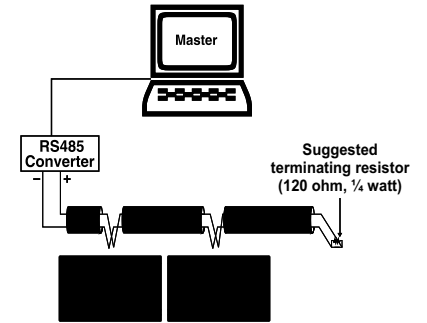
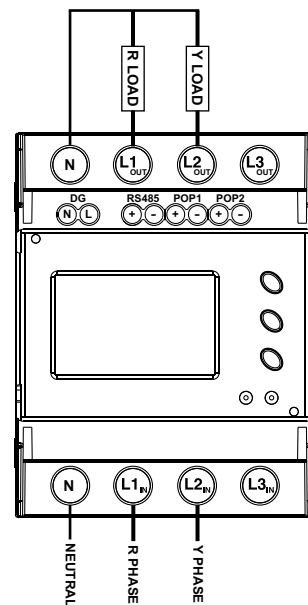
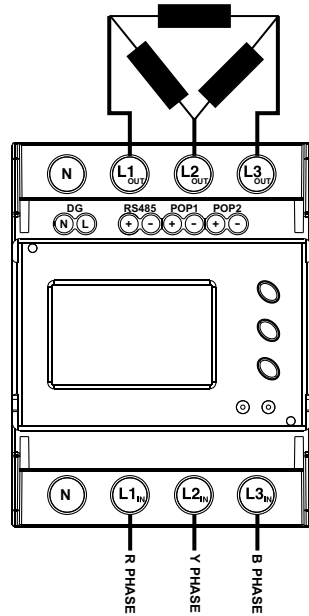
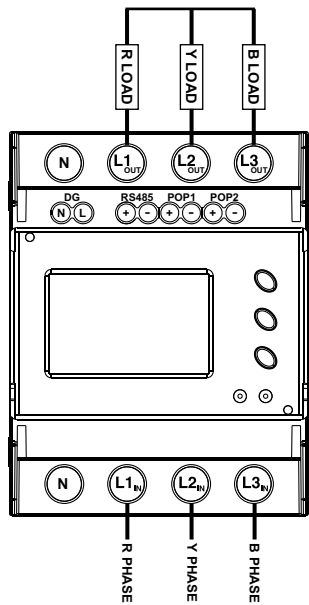
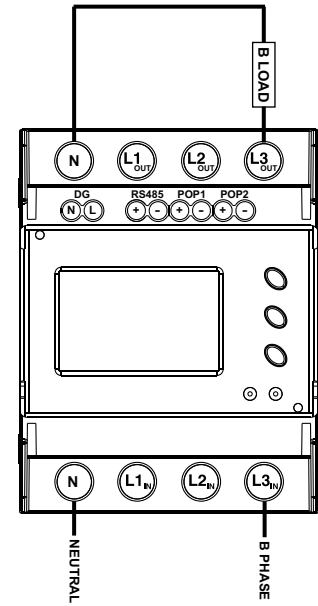
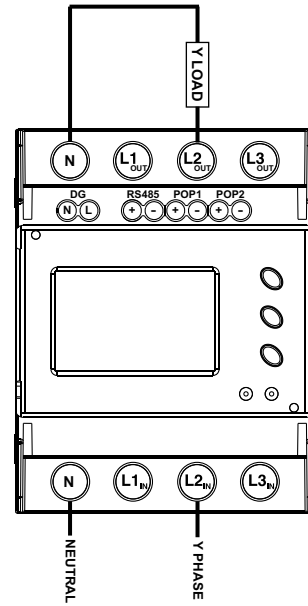
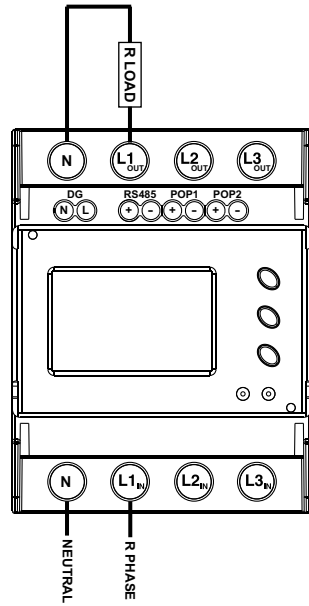
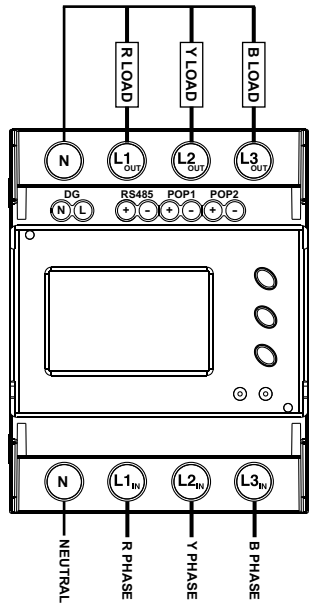
Address	Parameter
30000	Voltage V1N
30002	Voltage V2N
30004	Voltage V3N
30006	Average Voltage LN
30008	Voltage V12
30010	Voltage V23
30012	Voltage V31
30014	Average Voltage LL
30016	Current I1
30018	Current I2
30020	Current I3
30022	Average Current
30024	kW1
30026	kW2
30028	kW3
30030	kVAr1
30032	kVAr2
30034	kVAr3
30036	kVA1
30038	kVA2
30040	kVA3
30042	Total kW
30044	Total kVAr
30046	Total kVA
30048	PF1
30050	PF2
30052	PF3
30054	Average PF
30056	Frequency

Address	Parameter
30058	Total Net kWh (MAINS)
30060	Total Net kVArh (MAINS)
30062	Total Net kVAh (MAINS)
30064	Total Net kWh (DG)
30066	Total Net kVArh (DG)
30068	Total Net kVAh (DG)
30070	Max DMD Active Power
30072	Max DMD Reactive Power
30074	Max DMD Apparent Power
30076	kWh1 – Import
30078	kWh2 – Import
30080	kWh3 – Import
30082	kWh1 – Export
30084	kWh2 – Export
30086	kWh3 – Export
30088	Total kWh – Import
30090	Total kWh – Export
30092	kVArh1 – Import
30094	kVArh2 – Import
30096	kVArh3 – Import
30098	kVArh1 – Export
30100	kVArh2 – Export
30102	kVArh3 – Export
30104	Total kVArh – Import
30106	Total kVArh – Export
30108	kVAh-1
30110	kVAh-2
30112	kVAh-3
30684	Serial No. (Data structure : Hex)
30710	DG Sensing

Address	Parameter
31149	Import kWh1
31150	Import kWh2
31151	Import kWh3
31152	Export kWh1
31153	Export kWh2
31154	Export kWh3
31155	Total Import kWh
31156	Total Export kWh
31157	Total kWh (MAINS)
31158	Import kVArh1
31159	Import kVArh2
31160	Import kVArh3
31161	Export kVArh1

Address	Parameter
31162	Export kVArh2
31163	Export kVArh3
31164	Total Import kVArh
31165	Total Export kVArh
31166	Total kVArh (MAINS)
31167	kVAh1
31168	kVAh2
31169	kVAh3
31170	Total kVAh (MAINS)
31171	Total kWh (DG)
31172	Total kVArh (DG)
31173	Total kVAh (DG)

Address	Parameter	Range		Length (Register)
		Min Value	Max Value	
40000	Password	0	9998	1
40001	Slave id	1	255	1
40004	N/W Selection	0	3P4W	1
		1	3P3W	
		2	1P2W-P1	
		3	1P2W-P2	
		4	1P2W-P3	
40005	Demand Interval Method	0	Sliding	1
		1	Fixed	
40006	Demand Interval Duration	1	30	1
40007	Demand Interval Length	1	30	1
40008	POP	0	Total kWh	1
		1	Total kVArh	
		2	IP kWh	
		3	EP kWh	
		4	IP kVArh	
40009	Pulse Weight	0	1	1
		1	10	
		2	100	
		3	1000	
40010	Pulse Duration	0	0.01	1
		1	0.05	
		2	0.1	
		3	0.2	
		4	0.3	
		5	0.4	
40011	Baud rate (bps)	0	2400	1
		1	4800	
		2	9600	
		3	19200	
40012	Parity	0	None	1
		1	odd	
		2	Even	
40013	Stop bit	0	1	1
		1	2	
40014	Backlight OFF (sec)	0	7200	1



Contact sales for PC based monitoring software to communicate with the meters.

Specifications subject to change as development is a continuous process.

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