

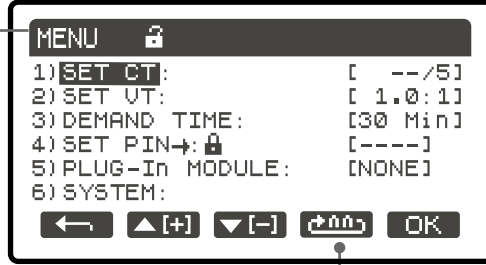
Menu: Set CT, VT, Demand Time, Pin Lock, Plug-In Module & System

Menu Page

At Home page: Press **[F5]** (F5 button) to scroll thru tab menu for **Menu** tab then press (F5) button to enter Menu mode.

MENU

- ▶ Select mode (1~6) (highlighted) using the **[+]** or **[-]** button
- ▶ Press **[OK]** to enter selected menu
- ▶ Press **[+]** or **[-]** button to change value or press **[0.0]** to swift digit
- ▶ Press **[OK]** to confirm setting
- ▶ Press **[←]** to exit & return to Start Up page



Next digit selection
Press **[0.0]** (F4) button to move the digit when setting

SETTING RANGE

1) Set CT ratio	0 ~ 10000 / 5
2) Set VT	1.0 ~ 2500.0 : 1
3) Set Demand Time	10 ~ 60 mins
4) Set Pin Code Lock	0000 ~ 9999 (4 digits)
5) Plug-In Module	None / A-01 (RS-485 Modbus RTU)
	Add : 0 ~ 255
	Baud rate : 0.6 ~ 38.4 (press SAVE)
6) System (->press OK)	Backlit : Auto / 1~7
	Contrast : 0 ~ 15
	Phase Failed : Flash / Off
	Factory Reset : Yes / No

All modes exit automatically if left untouched for more than 20 secs.

IUF Default Home Page

Title description → AMPERE CT: [100/5]

Real Time Value →

L1	7.640	Ineutral 1.420 (A)
L2	1.780	
L3	10.32	

Tab Menu → Press **[F5]** button to scroll thru tab menu

Buttons: IUF, P/PF, %E%, Dmd, [←], [~], Thd, Info, Menu

VOLTAGE (L-N) 3 SEQ: A>B>C

L1	243.4	Uasymmetry 2.3% (V)
L2	244.4	
L3	245.3	

Buttons: IUF, P/PF, %E%, Dmd, [←]

- ▶ Press **[IUF]** (F1 button) to view: Voltage (L-N) page
- ▶ Press **[IUF]** (F1 button) again to view: Voltage (L-L) page
- ▶ Press **[IUF]** (F1 button) again to view: Ampere page

VOLTAGE (L-L) 3 SEQ: A>B>C

L1	422.4	Freq (Hz) 50.00 (V)
L2	424.7	
L3	424.4	

Buttons: IUF, P/PF, %E%, Dmd, [←]

P/PF Power Parameters (kW, kVar, kVA, PF, cosφ)

Select by pressing the corresponding F2 to F5 key to view. Press **[←]** to return to previous tab menu

POWER [kW]

L1	1.8240	Σ(kW) 4.6540 (kW)
L2	0.3821	
L3	2.4581	

Buttons: [←], kW, kVar, kVA, P/PF

Press **F2** to view kW

POWER [kVar]

L1	1.8240	Σ(kVar) 4.6540 (kVar)
L2	0.3821	
L3	2.4581	

Buttons: [←], kW, kVar, kVA, P/PF

Press **F3** to view kVar

POWER [kVA]

L1	1.8240	Σ(kVA) 4.6540 (kVA)
L2	0.3821	
L3	2.4581	

Buttons: [←], kW, kVar, kVA, P/PF

Press **F4** to view kVA

POWER FACTOR

L1	0.972	PFavg 0.965
L2	0.860	
L3	0.979	

Buttons: [←], kW, kVar, kVA, P/PF

Press **F5** to view Power Factor

COS (φ)

L1	0.985	COSφ avg 0.987
L2	1.000	
L3	0.994	

Buttons: [←], kW, kVar, kVA, P/PF

Press **F5** to view cos

%E% Energy Parameters (kWh, kVarh)

Select by pressing the corresponding F2 or F3 key to view: Press **[←]** for previous Tab.

ENERGY [kVarh]

E_{imp}: 000,000,388.1
E_{exp}: 000,000,388.1

Buttons: [←], kVarh, kWh

Press **F2** to view kVarh

ENERGY [kWh]

E_{imp}: 000,000,388.1
E_{exp}: 000,000,388.1

Buttons: [←], kVarh, kWh

Press **F3** to view kWh

Dmd Demand Parameters for kW & Ampere (Max, Rolling, Previous)

Max Demand (kW)

Demand Interval

L1	1.8640	Σ(kW) 4.9140 (kW) max demand
L2	0.8040	
L3	2.6700	

Rolling Demand (kW)

Elapsed demand Interval

L1	1.8640	Σ(kW) 4.9140 (kW) rolling demand
L2	0.8040	
L3	2.6700	

Previous Demand (kW)

Demand Interval

L1	1.8640	Σ(kW) 4.9140 (kW) prev demand
L2	0.8040	
L3	2.6700	

Buttons: [←], [I], [ROLL], [0.0]

Max Demand (Ampere)

L1	7.800	Iavg 7.600 (A) max demand
L2	3.460	
L3	10.92	

Buttons: [←], kWh, P/ROLL, [0.0]

Press 3.0 sec to restart Demand

Voltage & Ampere Waveform Page

Back to previous tab

Scroll thru L1, L2, L3 phase

(F3) to switch view (Voltage only, Ampere only or Voltage & Ampere simultaneously for the selected phase)

Press (F4) to view Phasor diagram

Home page

PHASOR U ±1° SEQ: A>B>C

V1: 241.1
V2: 253.6
V3: 247.7

I1: 3.913
I2: 2.213
I3: 3.479
In: 3.522

Back to previous page

Alternate between RMS value and Phase Angle value every 3 seconds

Phasor Angle Definition
Press & hold (F4) button to view angle definition

Neutral phasor
Press & hold (F3) button to view Neutral Ampere

Switch View between Voltage or Ampere Phasor
To view (Voltage only, Ampere only, Voltage & Ampere) phasor diagram

Thd Total Harmonic distortion Page

Har-s	[U]	[A]
L1	3.1 U	7.7 A
L2	0.4 U	5.6 A
L3	1.7 U	9.2 A

Press (F5) to return to Home page

Press (F4) to display Spectrum Bar Graph

Scroll Odd Harmonic
Press (F2/F3) buttons to select 1st ~ 21st Harmonics

L1 AMPERE SPECTRUM

THD-I: 16.3%
I-RMS: 79.48A
k-F: 2.03

Selected Phase info

k factor for selected Phase current

Switch View between Voltage or Ampere Spectrum Bar Graph

Phase L1/L2/L3
Press (F4) button to scroll thru phase L1/L2/L3

Info Device Info Page

Press (F3) to view Voltage Info

Press (F3) to view Ampere Info

Press (F3) to view kW Info

Press (F3) to view Current Energy

Press (F3) to view Previous Reset Energy

Press (F3) to view VIP Info

Press (F3) to view Device Info

Clear Min/Max
Press to clear recorded value. Value will also be clear when the device is power ON

Previous Reset Energy
Whenever Current Energy values are factory reset or overflow, these values will be stored here.

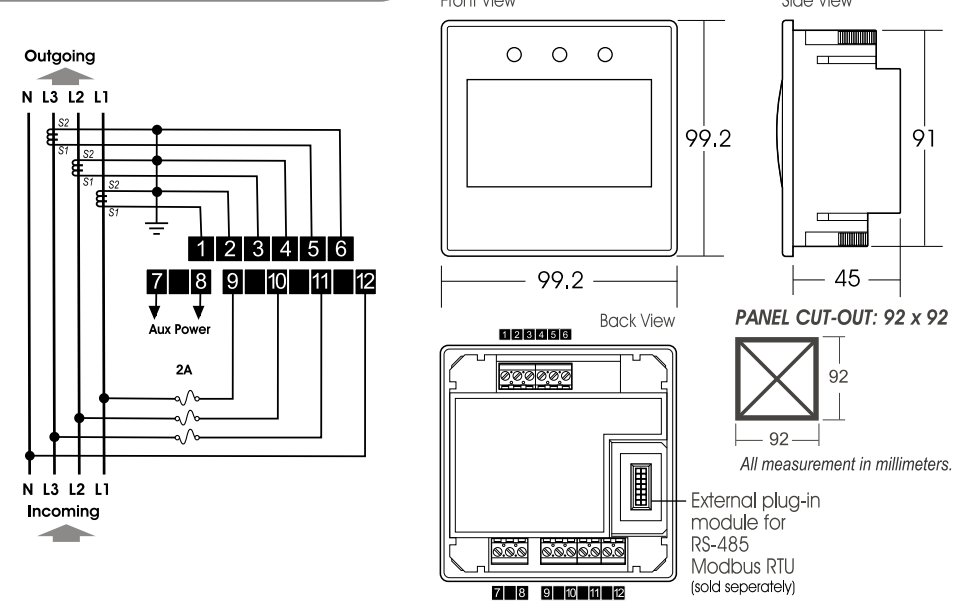
Model

Version

Operation Hour
Shows the total operated hours of device

Start up display logo

Casing Dimension & Wiring



TECHNICAL DATA

Network Type
3P4W, 3P3W, 3P3W (Aron)

Current Measurement
AC Input Range : 0.005 ~ 6.500 A
Accuracy : ± 0.5%
CT Range : 0 ~ 10,000 / 5A
Burden : < 0.1 VA at 5A

Voltage Measurement
AC Input Range : 0 ~ 300 VLN , 0 ~ 500 VLL
Accuracy : ± 0.5%
VT Range : 1.0 ~ 2500.0 : 1

Power Measurement
Accuracy (W, Var, VA, PF, Cos φ) : 1.0%

Frequency Measurement
Range : 45 ~ 65 Hz
Accuracy : ± 0.1%

Energy Measurement (4 Quadrant)
Range : 0.0 ~ 999,999,999.0

Communication
Plug in module : A-01 (Modbus RTU RS-485) with selectable baud rate (kbps) (sold separately)
0.6, 1.2, 2.4, 4.8, 9.6, 19.2, 38.4

Aux Power Supply
AC range : 65 ~ 275 Vac, 45 ~ 65 Hz
DC range : 90 ~ 300 Vdc
Consumption : < 3VA

Mechanical
Operating Temp. : -5°C ~ +55°C
IP Rating : IP52 (front panel)
Installation : Panel flush mount
Dimension (mm) : 99.2 (h) x 99.2 (w) x 45 (d)
Weight : approx. 310 gram

All specifications are subject to change without prior notice.