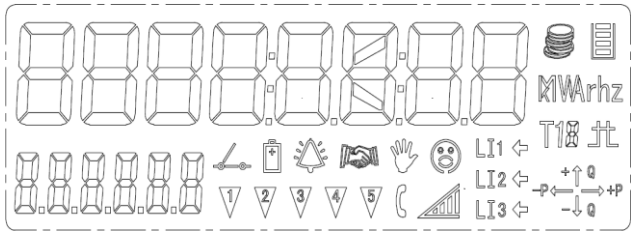
aMeter300

Three Phase Smart Energy Meter

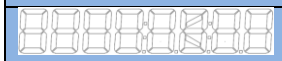
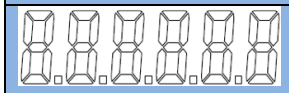
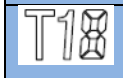
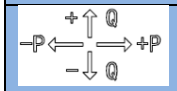
Installation Guide & User Manual

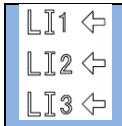
Meter LCD Display

LCD Full Screen Display:



Display Icons including:

Symbol on LCD	Description
	Main display area
	Indicate the user code
	Currency indicator.
	Credit remains status indicator.
	Unit indicator
	Tariff indicator
	If meter in factory mode, this icon will be lighted.
	Energy direction indicator which indicates total power direction refreshed per second.

	Current state indicator. If there is load, the “LI1”/“LI2”/“LI3” will be lighted. And if current is reverse, the arrow will be light, and the icons will flash.
	Wireless signal level
	Token accepted or refused indicator.
	Meter is communicating
	Tamp indicator.
	The first inverted triangle indicates Key mode; The second one indicates test mode; The third one indicates DST enabled; The fourth one indicates over load; The fifth one indicates over current.
	Friendly status indicator
	Alarm status indicator.
	This Symbol is visible if the battery is low or disconnected
	Relay status

Auto display List

Index	Item name
1	LCD All Segment Display
2	Local Date
3	Local Time
4	Meter Number
5	Remaining Credit Value
6	Last Recharge Amount
7	Current Active Rate
8	Cumulative R Phase Energy
9	Cumulative Y Phase Energy
10	Cumulative B Phase Energy
11	Cumulative Active Energy
12	Cumulative Active Energy (TOD 1)
13	Cumulative Active Energy (TOD 2)
14	Cumulative Reactive Energy (Q1+Q2+Q3+Q4)
15	Last Month MD
16	Instantaneous Voltage R
17	Instantaneous Voltage Y
18	Instantaneous Voltage B
19	Instantaneous Phase Current R
20	Instantaneous Phase Current Y
21	Instantaneous Phase Current B
22	Instantaneous Neutral Current
23	Instantaneous Active Power
24	Instantaneous Avg. Power Factor
25	Internal Self Diagnostics

All kind of meter events will show in auto display mode cycle as an event name Error only cycle display when it happened. If any errors appeared, please contact with the engineer of local electric power department.

Push display List

Index	Item name
1	LCD All Segment Display-value
2	Local Date-value
3	Local Time-value
4	Device ID 1, manufacturing number-value
5	Remaining credit-value
6	Currently active tariff rate-value
7	Last purchase credit-value
8	Last purchase date-value
9	Last purchase time-value
10	Seq num-value
11	Open module cover count- date and Time value
12	Open terminal cover count- date and Time value
13	Active energy (|+A|+|-A|) Combined total-value
14	Active energy Combined total (+A+-A) rate 1-value
15	Active energy Combined total (+A+-A) rate 2-value
16	This month consumption active energy (|+A|+|-A|) Combined total-value
17	Last single month consumption active energy (|+A|+|-A|) Combined total-value
18	Instantaneous voltage L1-value
19	Instantaneous voltage L2-value
20	Instantaneous voltage L3-value
21	Instantaneous current L1-value
22	Instantaneous current L2-value
23	Instantaneous current L3-value
24	Instantaneous current Neutral (L0)-value
25	Instantaneous active power (|+A|+|-A|) -value
26	Instantaneous active power L1-value
27	Instantaneous active power L2-value
28	Instantaneous active power L3-value
29	Instantaneous Power factor (+A/+VA)-value
30	Instantaneous Power factor (+A/+VA) Phase L1-value
31	Instantaneous Power factor (+A/+VA) Phase L2-value
32	Instantaneous Power factor (+A/+VA) Phase L3-value
33	Total Active MD Last Month-value
34	Capture time
35	Current Max MD-value
36	Capture time
37	Reactive energy import(|+R|+|-R|)-value
38	Reactive energy Lag Inductive (Q1+Q3)-value
39	Reactive energy Lag Inductive (Q2+Q4)-value
40	Active energy (|+A|+|-A|) L1(Combined total)-value
41	Active energy (|+A|+|-A|) L2(Combined total)-value
42	Active energy (|+A|+|-A|) L3(Combined total)-value

Short code display

Input the 3 digits combination code, then press "↵" keyboard will start the meter short code display.

Operation	Description
"00" +"↵"	Active emergency overdraft
"800" +"↵"	Cumulative total energy consumption, unit: kWh
"801" +"↵"	Remaining credit, unit: kWh ($)
"806" +"↵"	Trip status word
"808" +"↵"	Active power, unit: kW
"814" +"↵"	Current monthly total energy consumption
"865" +"↵"	good/ reject, succeed/fail to enter run mode
"869" +"↵"	Current power limit, unit: kW
"877" +"↵"	A Active power, unit: KW
"878" +"↵"	B Active power, unit: V (not support in single phase meter)
"879" +"↵"	C Active power, unit: V (not support in single phase meter)
"886" +"↵"	Current tariff price
"889" +"↵"	Seq No
"916" +"↵"	Last 1-month average power factor
"922" +"↵"	Monthly consumption amount
"953" +"↵"	Neutral Current
"981" +"↵"	Emergency balance
"998" +"↵"	Average power factor of current month

Alarm Information

Alarm information	LCD prompt
remaining less than 0	noCrEdit
Below the alarm threshold 1	LEvEL-1
Below the alarm threshold 2	LEvEL-2
Below the alarm threshold 3	LEvEL-3
Open state（end cover, top cover)	oP-CovEr
Power/Current Overrun	LiMitEr
manual trip	MAnuAL
battery undervoltage	E-bAttEr
Strong external magnetic interference	oP-Sn
current reverse	E-rEvErs
current imbalance	unbALn-I
overvoltage condition	ovEr-v
undervoltage state	undEr-v
Neutral fault	droP-n
forced trip status	F-oPEn
non-running trip	no-run
abnormal frequency	FrEq-Err
open box	OPEn-boX
Voltage reverse phase sequence	u-SEq
voltage imbalance	unbALn-u
phase failure	droP-u
cut off	droP-i
Maximum phase power unbalance	unbALn-P