

WSA110

Single Phase Smart Meter



Overview

WSA110 is a single phase smart meter utilized for AMI, AMR, and AMM applications in smart grid systems.

The meter complies with DLMS and IDIS standards, and utilizes various technical solutions to communicate with AMI or AMR systems.

Highlights

1. Open Communication Protocol: DLMS/COSEM
2. Load profile with instantaneous data and energy data
3. Support FW remote update
4. Compatible with GPRS /PLC /RF/NB-IoT modules
5. Time of Use metering apply 8 tariff of TOU or step tariff
6. One optical port for programming and reading
7. One RS485 port for local communication device connection
8. By Pass detect.
9. Relay control connect\disconnect phase and neutral wires
10. Access to water and gas meters via MBUS according to agreement EN 13757
11. Anti-magnetism 500mT
12. Measuring THDs
13. Meter cover and meter base support ultrasonic/laser welding
14. Remote relay control
15. Battery replaceable



Single Phase Smart Meter



Main Feature

Measurement

1. Active Energy Measurement in both direction
2. Instantaneous value measurement
3. Maximum demand/Cumulative demand
4. Power Measurement
5. Measuring instantaneous THDs of the voltage, current, and phase difference (voltage/current) of each phase, in compliance with the IEC 61000-4-7 standard.

LCD Display

1. Display content can be configured
2. LCD backlight
3. Large digit LCD display, easy for reading

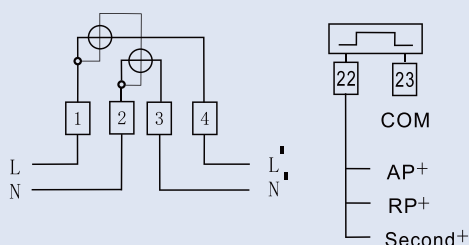
Self-Diagnostic and Detection

1. Real time clock(RTC)indicator
2. Reverse current indicator
3. Non-volatile memory status indicator
4. Battery capacity indicator
5. Replaceable Battery
6. All display segments self-diagnostic check
7. Display of the presence of all voltages
8. Display LCD in power-off condition by button
9. Tampering Proof and detection function
10. Record the cumulative number of power outages
11. Power Quality Monitor: Under Voltage, Over Voltage, etc.

Technical Specifications

Voltage	Reference	220V, 230V, 240V
	Operating range	0.7-1.3Un
Frequency		50Hz or 60Hz
Current	Basic Current (Ib)	5A, 10A
	Maximum Current (Imax)	40A, 60A, 80A, 100A
Accuracy	Active(and apparent)	CL0.5
	Reactive	CL2.0
Typical Power Consumption	Voltage circuit active / apparent power at Un	≤2W
	Current circuit apparent power at Ib	≤10VA
Degree of Protection		IP54
Weight of Meter		1.2kg
Dimensions		238.5mm (L) ×130mm (W) ×68mm (H)
Meter Service Life		>10years

Connection diagram



Dimension diagram

