

Single Phase ANSI meter **WLP-1S/2S**



WLP-1S/2S meter is a single phase cost-efficient design. It focuses on the necessary functions and offers a reliable, and accurate meter, capable of measuring kWh in single phase two wire or three wire circuit.

■ Highlights

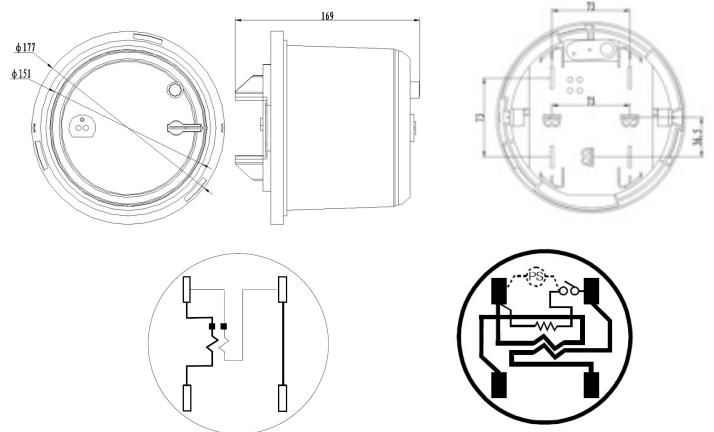
- Instantaneous value measurement and display (kW, V, A)
- Ultrasonic wave for tampering-proof(optional)
- Battery-backup LCD display

Main Functionalities

- Unidirectional or bi-directional measurement configurable
- Total active energy register and reverse active energy register
- LCD display show the power flow direction, digital power indicator and various selectable display items like Active Energy(kWh), instantaneous demand(kW), voltage(V), and Current(I).
- Optical communication
- Visible LED pulsing at a rate proportional to the measured load while the meter is operating.

Optional Functionalities

- Internal RTC: Clock accuracy (daily deviation): $\leq 0.5S (23^{\circ}C)$
- kWh maximum demand and timestamp
- 12-Month Billing Data
- LCD backlights
- Multi tariff billing
- Switch relay
- Anti-tamper detection
- Event record



FM1S

FM2S

■ Standard

ANSI C12.1	American National Standard for Electric Meter Code for Electricity Metering
ANSI C12.20	American National Standard for Electricity Meters - 0.2 and 0.5 Accuracy Classes

■ Specifications WLP-1S/2S

Description	Value
Accuracy	CA0.5
Voltage	
Reference voltage	240V
Operating voltage range	80%-120%Un
Form	FM 1S / FM 2S
Current	
Test amperes (TA)	30A / 15A
Current classes	200A / 100A
Starting current	ANSI-C12.20
Frequency	60Hz
Pulse constant	1000imp/kWh
Temperature	
Operation range	-25°C ~ 85°C
Limit range for storage and transport	-40°C ~ 85°C
Humidity	Up to 95% non-condensing
Power Consumption	
Power consumption in voltage circuit (active)	≤2 W
Power consumption in voltage circuit (apparent)	≤10 VA
Power consumption in current circuit	≤1 VA
Insulation Strength	
AC voltage test	4kV 60HZ during 1min
Impulse voltage test	1.2/50μs mains connections 6kV
EMC	
Electrostatic discharges(Contact discharges)	8kV
Electrostatic discharges(Air discharges)	15kV
Surge immunity test	6kV
Fast transient burst test	4kV
Housing	
Protection degree	IP54
Meter cover	Opaque PC+ glass fiber with a transparent window
Meter base	Opaque PC+ glass fiber
Terminal cover	Opaque PC + glass fiber
Display	
Number of digits	5 or 5+1 or 6
Weight	
Net weight	Approx.0.60 kg
Dimension	177mm x 177mm x 169mm