

## SY3612 SY3631

### Single Phase Portable Energy Meter Testing Equipment Three Phase Portable Energy Meter Testing Equipment



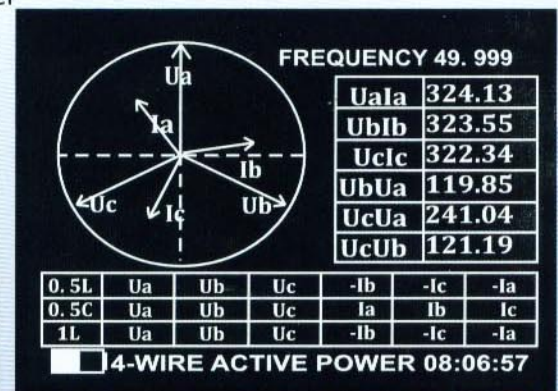
**APPLICATION :** For Field testing/calibration of Electricity Meters

#### KEY FEATURES:

- **Leading:** The 3.9" color screen, English menu prompting menu ARM and 16 digital A/D chip.
- **Convenient:** It can be held by hand , hung, supported or wedged in the field . All function keys on a board can fulfill functions switch between keys.
- **Safety:** Voltage wire is protective coated and cover all crocodile clips to make metal contacts unexposed. All these make operation more safely.
- **Low power consumption:** Supply power by inside lithium battery or external direct current and whole power consumption is less than 5VA.
- **Portable:** volume (197mm×117 mm×45 mm), light (host weight<0.4kg).

#### FUNCTIONS :

- Single phase (SY3612) or Three phase(SY3631) Active or Reactive Energy Measurement
- Calibrate Three phase, Single phase, Active or Reactive meter
- Measure Vrms of Three phase or Single phase
- Measure Irms of Three phase or Single phase
- Measure active power of Three phase or Single phase
- Measure reactive power of Three phase or Single phase
- Measure apparent power of Three phase or Single phase
- Measure power factor of Three phase or Single phase
- Measure phase angle between voltage and current
- Measure frequency of power line
- Display vector diagram (for SY3631 only)
- Display waveform of U and I
- Analyze and display content of harmonic up to 50 times)of U and I
- Store, look and transmit measured data(can storage 1000 testing data)
- Inspect error of 48 kinds of wire connection ways of positive or adverse phase sequence on spot (for SY3631 only)
- Can download, record and real-time measured data which can be viewed and printed





## TECHNICAL SPECIFICATION:

### 1. Measure Range and Input Impedance

	Voltage	Current	Frequency	Phase
Range	30-450V	Direct: 10mA - 20A Clamp: 200mA -100A 1A – 500A 4A – 2000A	45-65Hz	0-360°

### 2. Test Accuracy class, Resolution, and Basic Error

	Accuracy Class		Resolution	Basic Error	
	Direct	Clamp		Direct	Clamp
Voltage (R.M.S)	0.1	0.2	0.01V	0.1%	0.2%
Current (R.M.S)	0.1	0.2	0.001A	0.1%	0.2%
Active Power	0.1	0.2	0.01W	0.1%	0.2%
Active Energy	0.1	0.2	---	0.1%	0.2%
Reactive Power	0.2	0.5	0.01var	0.2%	0.5%
Reactive Energy	0.2	0.5	---	0.1%	0.5%
Phase Angle	0.2	0.5	0.01°	0.2%	0.5%
Frequency	0.05	0.05	0.001Hz	0.02Hz	

### 3. Operation and Storage Environment

	Temperature (°C)	Humidity (%RH)
Operation Temperature	0 ~ 40°C	15~90%
Storage temperature	-20 ~ 65°C	10~90%

### 4. Weight and Dimensions

	Meter	Aluminim carry case
Dimension	197x117x45mm	15~90%
Net weight	0.4kg	4.0kg

### 5. Power Supply

	AC Power (Self Power is optional)	DC Power
Power Supply	100 ~ 240VAC	4.65 ~ 5.35VDC
Power Consumption	≤ 5VA	≤ 6W
Internal Batteries	Continue using time is about 4 hours.	