



YC2000N

Portable Single Phase Standard Meter



YC2000N portable single phase standard meter (here in after “instrument”) is used to test single phase meter when it is working, and also it can be used as a voltage, current and power meter to measure the AC parameters of power line.

Main functions

- ◆ Measure normal parameter of power line;
- ◆ Test single phase meter on site via current clamp 5A, 10A, 20A, 50A or 120A;
- ◆ Accuracy of the test via clamp is up to 0.2%cl;
- ◆ Measure harmonic of voltage and current, up to 51st harmonics;
- ◆ Display waveform and vectogram of voltage and current;
- ◆ Built-in clock, record testing time exactly;
- ◆ Store, check and transmit the measured data, up to 2000 records can be saved;
- ◆ Connected to PC, reading recorded data via USB disk;
- ◆ External virtual load is available to do on site test when current is less than 1A;
- ◆ (Optional) Printer is optional and print via software (not connect to instrument).
- ◆ (Optional) Measure current transformer’s ratio, primary clamp: 1A, 5A, 10A; secondary clamp: 500A, 1000A, 1500A, 2000A;
- ◆ (Optional) Terminal test with current cables, max current is 10A, and accuracy is up to 0.1%cl.

Specification

Test Voltage	
Range	120~264V (test leads), 0~300V (battery)
Measurement error	±0.1%
Harmonic	2 nd ~ 51 st
Test Current	
Range (clamp CT)	5A, 10A, 20A, 50A, 120A
Measurement Error	±0.2% (Clamp CT)
Direct (Terminal)	10A
Measurement Error	±0.1% (Direct)
Harmonic	2 nd ~ 51 st
Power Measurement Error	
Active power (clamp CT)	±0.2%
Reactive power (clamp CT)	±0.5%
Energy Measurement Error	
Active energy (clamp CT)	±0.2%
Reactive energy (clamp CT)	±0.5%
Phase Angle	
Range	0°– 360°
Measurement error	±0.1°
Range	45Hz ~55Hz
Pulse output	
Low frequency	7200 imp/kW.h
High frequency	3.6×10 ⁸ imp/kW.h
Output level	4.5~5.5V
Pulse input	
Constant range	0-10000imp/kW.h
Input level	DC4.5~12V
Others	
Display resolution	5" TFT color (800×480)
Data storage	2000
Voltage supply modes	Test lead power, battery (optional)
Working Voltage	120~264V (test leads), 0~300V (battery)
Dimension and weight	215mm×120mm×52mm, about 1kg

Side Terminal of the YC2000N according to different function request:

- Standard function ❶ one clamp for error test
 ❷ with load socket to test site whose current is too small
- Optional function ❸ CT ratio test function
 ❹ Direct terminal test with current test cable
 ❺ Battery power supply mode
 ❻ Printer via App not connect to instrument directly
 ❼ External load available to supply

- ◆ Side terminal with function ❶+❷



- ◆ Side terminal with function ❶+❷+❸+❹



- ◆ Side terminal with function ❶+❸+❹+❺



[Notes] function ❸~❼ are optional according to customer request.