YC98S1H

Portable 3 Phase Standard Meter

The instrument YC98S1H is used to calibrate three phase, single phase, active or reactive energy meter who comply with GB/T17215.211 (IEC62052-11), GB/T17215.311 /321/322/323 (IEC62053-11/21/22/23), and also it can be used as voltage, current and power meter to measure AC parameter of three phase power grid.
This portable three phase standard meter comply to GB/T11150-2001 (IEC60736:2001), GB/T4793.2-2008 (IEC61010-1:2001).

Test functions

- ☆ Can test one meter or two meters at the same time. And the error in both positive and negative percentage is more than 5 digits with 3 decimal places.
- ☆ Automatic test sequence using the scanning head for electronic and electromechanical meters, and the test can be automatically and can also manual operate by start/stop switch by manual start/stop button or from firmware.
- ☆ Can synchronously calculate all data and display on the interface at the same time show U.I.P.Q.VA. Phase angle as well as the harmonic synthesis of I.U.P.Q.VA and its percentage, the content of U.I positive sequence, negative sequence, zero sequence harmonics of PH+, PH-, PH+/P%, PH-/P%
- ☆ Normal current clamp or compensation current clamp available to prevent on site dust pollution.(optional)
- ☆ Pause function when do the error test.
- ☆ Operation via smartphone.
- ☆ Can simultaneously test two channel pulses whose pulse constant, modes and pulse quantities can be different.
- ☆ Display vector diagram, the voltage and current waveform of three phases.
- ☆ Identify wrong wiring & dial test function
- ☆ Can simultaneously analysis and measurement value of each time U.I.P.Q.VA of three-phase harmonic wave, and display its 63 times +PH /-PH and percentage.
- ☆ Bluetooth printer.(optional)
- ☆ Can simultaneously test three phase CT ratio, display the ratio error. To realize this function need to use 3 big current value Rogowski coils, and the test result can be saved.(optional)
- ☆ Can test CT burden or PT burden. Need to purchase relative small current value clamp to realize this function. And test results can be saved.(optional)
- ☆ Clock error test function. (optional)

Specification

Test Voltage	
Range	0~440V
Error	±0.05% (0.1%)
Harmonic	2^{nd} ~ 63^{rd}
Test Current	
Range (direct connection)	0.01A ~ 12A
Range (100A Clamp CT)	0.1~120A (Optional clamp: 5A, 500A, 1000A)
Error (direct connection)	±0.05% (0.1%)
Error (Clamp CT)	±0.2% (0.1~0.2A, 100A clamp) ±0.1% (0.2~120A, 100A clamp) ±0.1% (5A clamp), ±0.5% (other clamps)
Harmonic	2^{nd} ~ 63^{rd}
Power Measure Error	
Active Power (Direct connection)	±0.05%
Active Power (Clamp CT)	±0.1% (5A clamp,100A clamp) ±0.5% (other clamps)
Reactive Power (Direct connection)	±0.1%
Reactive Power (Clamp CT)	±0.5% (5A,100A) ±1.0% (other)
Energy Measure Error	
Active Energy (Direct connection)	±0.05% (±0.1%)
Active Energy (Clamp CT)	±0.1% (5A,100A) ±0.5% (other)
Reactive Energy (Direct connection)	±0.1%
Reactive Energy (Clamp CT)	±0.5% (5A,100A) ±1.0% (other)
Error - Others	
Ratio Measurement	±0.5%
Voltage Influence	<±0.01%
Frequency Influence	<±0.01%
Temperature Influence	<±0.01%/℃
24h Accuracy Influence	<±0.01%
Harmonic Influence	<±0.01%
Phase angle	
Range	-180°~ 180°
Error	<±0.1°

Frequency		
Range	45 ~ 65Hz	
Error	±0.01Hz	
Pulse output		
Inner High frequency (C_H)	Direct connection	$1.2x10^8$ P/kWh
	Clamp CT	$1.2x10^8$*(5/Ie)P/kWh
Low frequency output	Direct connection	2400P/kWh(kvarh、kVAh)
	Clamp CT	2400*(5/Ie)P/kWh (kvarh、kVAh)
Pulse ratio	1:1	
Output level	+5V (can be adjusted according to request)	
Pulse input		
Input Channel	2	
Input level	5 ~ 10V	
Max Pulse Input frequency	Max. 5kHz	
Display		
Resolution	5”TFT Touch Screen	
System	UCOS	

Other		
Voltage supply mode	Tested circuit(85~285V), Battery (working 9 hours, charging about 4 hours) (No external power supply mode)	
Safety	CE certified	
IP Level	IP51	
Power on Stability Time	< 3mins	
Power Consumption	<5W	
Operation Temperature	Temperature -20℃ ~ +55℃, humidity 40% ~ 95%	
Storage Temperature	Temperature -40℃ ~ +80℃, humidity 40% ~ 95%	
Dimension (mm) (W×H×D)	Main	215×118×57
	Carry case	446×361×182
Weight (kg)	Main	0.9
	Whole set	7.5

Wireless **High Voltage Current Clamp**

1. Description

High voltage current clamp is suitable for high precision testing of AC current. It has a unique automatic opening and closing structure, which is convenient to use and does not require to disconnect with the line under test. Non-contact measurement is safe and fast, especially suitable for line fault inspection and primary current measurement.

The iron core of high voltage current clamp adopts double-layer shielding technology, which has little interference by the external magnetic field, ensuring high accuracy, high stability and high reliability of continuous measurement throughout the year.

2. Technical specification

1) The barrier-free communication distance between current clamp and device is 50 meters.
2) Current test range: 0.6~500A
3) Accuracy class: 1.0%
4) Voltage of testing circuit: 35KV and below
5) Power consumption<3VA
6) Maximum diameter of cable under test: 43mm
7) Outline dimension: 252mm*116mm*36mm

Inline type

Hook type