

LC2000

FLEXIBLE CLAMP POWER METER

LC2000 flexible clamp power meter is a multifunctional, digital and intelligent instrument carefully developed by our company for on-site measurement of three-phase AC voltage, current, leakage current, phase between voltage and current, phase between voltage and current, frequency, phase sequence, electric energy, active power, reactive power, apparent power, power factor, total power, etc. the caliber is 150mm and 300mm diameter flexible coil sensor is easy to use and flexible. It can replace the functions of the traditional heavy clamp leakage ammeter and power clamp meter. It can also be used to distinguish the transformer wiring group, inductive and capacitive circuits, read out the phase relationship between CT groups of differential protection, check whether the wiring of Watt hour meter is correct, repair line equipment, etc., so as to provide a safe, accurate More convenient new power instrument. LC2000 also has backlight function, data retention, data storage and other functions. It is a necessary tool for electrical safety detection.

LC2000 flexible power clamp meter adopts advanced Rogowski coil technology. It is a ring coil evenly wound on non ferromagnetic materials. It has no hysteresis effect, no magnetic saturation, high linearity and strong anti-interference ability. The output signal is the differential of current to time. By integrating the output voltage signal, the current signal can be truly restored. The coil part of flexible current clamp has no exposed metal conductor, non-contact measurement, safe and fast; Its small size, light weight, exquisite appearance, soft and flexible, suitable for narrow environment and places with dense wiring; High measurement accuracy, strong reliability and response frequency bandwidth.

Features

1. Accuracy 3%;
2. 0-600V/0-3000A AC;
3. flexible clamp deigned;
4. 0.00 - 180000KWh range;
5. LCD with backlight function;
6. Measurement range widely;
7. Coil diameter 150mm or 300mm;
8. Suitable for small space measurement;
9. Powered by 1.5V AAA×3 alkaline batteries;



Functions

1. Test energy;
2. Test frequency;
3. Test phase angle;
4. Test leakage current;
5. Test phase sequence;
6. Test P, Q, S, total power;
7. Test three phase AC voltage;

Parameters

Electrical parameters

Functions	Measurement three phase AC voltage, leakage current, current, active power, reactive power, apparent power, total power, phase shift between current and voltage, phase shift between phase and voltage, frequency, energy and phase sequence
AC voltage measurement(U)	0-600V (U1, U2, U3, Un)
Accuracy	1%
Resolution	0.01V
AC current measurement(I)	0-3000A
Accuracy	2%
Resolution	0.1A
Frequency(F)	45-65Hz
Resolution	0.1Hz
Phase shift(Φ)	0-359.9°
Resolution	0.1°
Power factor(PF)	0-1
Resolution	0.001
Active power(P)	0-1800KW
Accuracy	3%
Active Energy(E)	0-180000KWh
Accuracy	3%
Display	LCD: 128dots×64dots ; 43mm×29mm; With backlight
Sampling rate	2 times/second
Clamp coil diameter	150mm or 300mm
Storage data	200sets
Power supply	DC 4.5V, 7 alkaline battery(1.5V AAA×3)
Working current	100mA
Insulation strength	3.7kVrms
Standard	EN61010-1, EN61010-031, EN61010-2-032, EN61326, CAT.III 600V

Mechanical parameters

Dimensions	151mm×100mm×35mm (L×W×T)(without clamp coil)
Weight (g)	350 (with battery)

Environmental conditions

Operating Temperature	-15°C to +55°C
Storage Temperature	-20°C to +65°C
Relative humidity	0%-95% RH