



# 开拓创新 引领未来

PRODUCT LAUNCH

2024. 02. 18.

# | COMPANY | PROFILE

Shenzhen Zhiyong Electronics is adhered to exploring the cutting-edge basic science of the electrical measurement ever since we entered the electronic measurement instrument and equipment industry in 2011.

We are committed to the localization of high-end oscilloscope probes, providing comprehensive and accurate measurement and testing technology for the high-tech industry worldwide.

Through years of independent technological research and development, we possesses complete independent intellectual property rights in our products, and has fully achieved the same technological level as foreign companies.

At present, we are a manufacturer in China that comprehensively grasps core technologies such as high-frequency current probes, high-voltage differential probes, high-frequency flexible current probes, high-accuracy current probes, high-accuracy current transformers, and optical isolated voltage probes.

We have the most complete range of high-frequency current and voltage probes and other electrical measurement instruments among similar companies in the world, as well as EMI testing system instruments and equipment.

They are widely used in the research and production of power electronic products, covering various industries such as robotics, lighting, power electronics, high-speed rail transportation, electromagnetic compatibility, aerospace, household appliances, navigation ships, new material research, wind and solar power generation, new energy vehicles and batteries, industrial automation and intelligent manufacturing.



# PRODUCT OVERVIEW

New products from the HCP8000 series high-frequency AC/DC current probes

HCP8030C 30A/DC~ 70 MHz (Small Jaw)

HCP8030H 30A/DC~120 MHz (Small Jaw)

HCP8070 70A/DC~ 30 MHz (Small Jaw)

HCP8150A 150A/DC~22 MHz (Large Jaw)

HCP8300A 300A/DC~ 8 MHz (Large Jaw)

Product features:

- Leading high-performance current sensors with **bandwidth reaching up to 120MHz**, reaching **the world's leading level**;
- Leading high-frequency current sensing technology ensures **full bandwidth waveform distortion free**;
- Leading **anti electromagnetic interference capability**;
- Leading **minimal insertion loss**;
- High precision and high stability performance, with **accuracy up to 1%**;
- **Dual range measurement function**, capable of precise measurement of small currents;





# Active power rail probe

## RP6060 (60V/1GHz) 1.25X fixed

Product features:

- Maximum **DC bias voltage  $\pm 60V$** ,
- Maximum **AC voltage  $\pm 1V_{pp}$** ,
- **Bandwidth of 1GHz.**
- The leading active power rail probe with **high precision digital voltmeter function of 4 digit.**

The users **can directly read power supply voltage value** from the probe and read ripple voltage from the oscilloscope.



# PRODUCT OVERVIEW



## Low frequency AC/DC current probe

CPL2000A (2000A/10kHz)

CPL4000A (4000A/ 5kHz)

Product features:

- A unique instrument in the industry that **combines an oscilloscope probe and a clamp ammeter**. Able to directly display the effective **current value** without connecting any devices, and also **able to measure the waveform by connecting to an oscilloscope**.
- The **unique sensor design** achieves twice the current measurement capability (4000ARMS) compared to similar products in the field, while ensuring excellent in coil accuracy.
- The display accuracy of the clamp ammeter function is **up to 4 digit**.
- Unique **battery and USB dual power supply** in the field.

## Low frequency AC/DC probe with digital display

CPL8100C (100A/DC-600kHz)100X/10X optional

CPL8100D (100A/DC-2MHz)100X/10X optional

### Product features:

- A unique instrument in the field that **combines an oscilloscope probe and a clamp ammeter**. Able to **directly display the effective current value** without connecting any devices, and also able to **measure the waveform by connecting to an oscilloscope**.
- Unique **push-pull current clamp design** for easy measurement in narrow spaces
- Bandwidth up to 2MHz
- The display accuracy of the clamp ammeter function is up to **4 digit**.
- Unique **battery and USB dual power supply** in the field.



# PRODUCT OVERVIEW

## High accuracy current transducer CTA2000 2000A/DC~140kHz



### Product features:

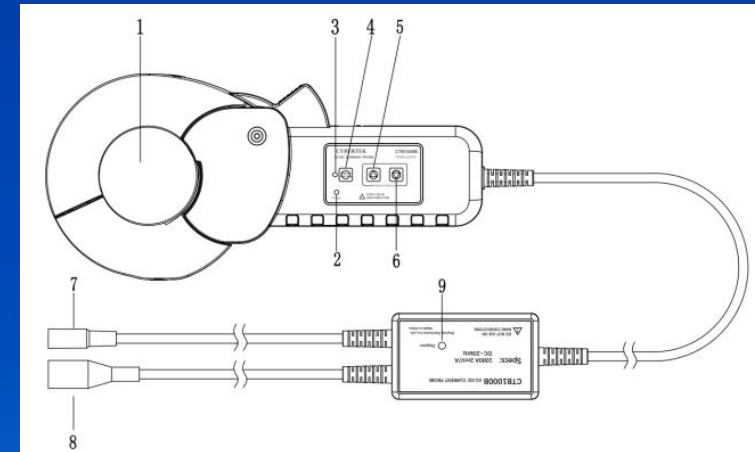
- Applied high-performance flux gate technology, with accuracy of up to **0.03%**;
- Measuring current up to **2000A effective value**; The measurement aperture is 70mm.
- **Used for high accuracy current measurement**, in conjunction with power analyzers;
- Excellent frequency and temperature characteristics;

# Adapter powered AC/DC high accuracy current probe CTB\*\*\*B series (voltage output)

CTB20B (20A/1MHz)  
CTB200B (200A/500kHz)  
CTB500B (500A/100kHz)  
CTB501B (500A/500kHz)  
CTB1000B (1000A/20kHz)

## Product features:

- Convenient **clamp type current sensor** for use,
- Applied high-performance flux gate technology, with **accuracy of up to 0.3%**;
- Used for high-precision current measurement, **in conjunction with power analyzers**;
- Excellent frequency and temperature characteristics;
- CTB\*\*\*B only needs to be **powered by a 12V adapter**.





# PRODUCT OVERVIEW

## Flexible current probe CP9000A series

(There are too many models for the CP9000 (S/L) A series so we won't list them one by one there)

### Product features:

- Unique **battery and USB dual power supply** in the industry;
- CP9000SA-**D2A** (D2A is the coil model) series, with a **coil temperature resistance of up to 150 °C**;
- **High bandwidth, high accuracy** (typical value of 2%);
- **The insertion loss is almost zero**, only a few picohenry, with almost zero interference on the object under test;
- The CP9000SA series probe has a **small and flexible sensor coil**, with typical wire diameters of 2.5mm, 2.5mm \* 1.2mm, 1.6mm, and a withstand voltage of up to 1kVpk. It is very suitable for **small packaging devices current measurement** of MOSFET, IGBT device pins (TO-220, TO-47 packaging) and capacitor ripple current measurement.



## Coaxial shunt CSD\*\*A series

CSD005A (0.005Ω/2W)

CSD01A (0.01Ω/2W)

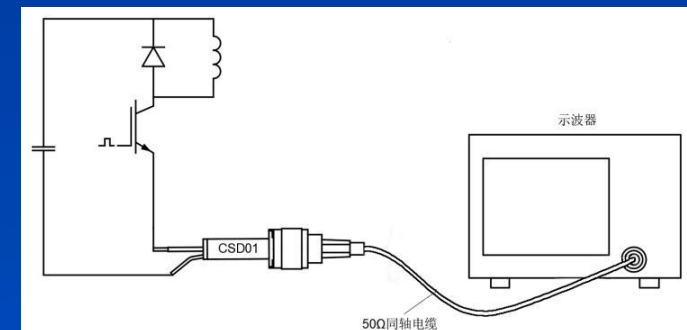
CSD02A (0.02Ω/2W)

CSD050A (0.05Ω/2W)

CSD100A (0.1Ω/2W)

### Product features:

- Leading high bandwidth: **400MHz~2GHz**;
- The **pure resistor structure** does not increase losses under high-frequency currents, making it very suitable for detecting high-frequency currents.
- The second figure on the right is a typical application of the product



# PRODUCT OVERVIEW

## OP6000A series optically isolated probe

OP6031A (3V~2500V/150MHz)

OP6033A (3V~2500V/300MHz)

OP6035A (3V~2500V/500MHz)

### Product features

- Applied leading photoelectric signal intelligent gain control system with **zero temperature drift** performance;
- Leading undistorted optoelectronic signal transmission technology with **high bandwidth** performance;
- **Isolation voltage of 60kV**;
- High speed **one click intelligent calibration technology** provides users with highly accurate measurement capabilities;
- **Ultra high Common Mode Rejection Ratio (CMRR)**;
- The **unique dual battery replaceable design**, not only ensures uninterrupted measurement for customers, but also allows customers to purchase the universal rechargeable battery themselves after a few years of usage if the battery fails. **No longer needs to send it back to the original factory for replacement, especially for overseas customers.**



## High frequency high voltage differential probes DP6000B and DP6000D series products

DP6070B	700V <sub>pk</sub> /300MHz	DP6070D	700V <sub>pk</sub> /500MHz
DP6150B	1500V <sub>pk</sub> /300MHz	DP1500D	1500V <sub>pk</sub> /500MHz
DP6350B	3500V <sub>pk</sub> /300MHz	DP6350D	3500V <sub>pk</sub> /500MHz
DP6700B	7000V <sub>pk</sub> /300MHz	DP6700D	7000V <sub>pk</sub> /500MHz

### Product features:

- Leading high bandwidth **300MHz and 500MHz high-frequency high-voltage differential probes;**
- Leading **high stability and high common mode rejection ratio technology;**
- The entire series (**up to 7000V**) **has passed the internationally authoritative German SGS safety certification**
- **Multiple ranges** to choose from.





## High frequency low voltage differential probes

DP6020A (20V/ 800MHz)

DP6040A (40V/ 800MHz)

DP6060A (60V/ 800MHz)

### Product features:

- Leading high bandwidth **800MHz** low-voltage differential probe;
- **Able to adapt any oscilloscope with a 50  $\Omega$  BNC input** and can be powered by a USB connector.



# Coupled decoupling network EM5070B (CDNE- M3)

## Product features:

- Used for EMI testing;
- Frequency ranges from 30MHz to 300MHz;
- Can be used for measuring 30MHz-300MHz radiation disturbance in electrical lighting equipment;
- Suitable for single-phase equipment conduct (disturbance voltage) measurement.





THANKS FOR  
WATCHING

SHENZHEN ZHIYONG ELECTRONICS CO., LTD