关于兄弟仪器

YQXIONGDI

深圳市兄弟仪器有限公司成立于 2016 年，坐落于深圳市南山区，是一家集研发、生产、销售与服务于一体的测试测量探头制造企业。

公司专注示波器探头及配套设备的自主研发与制造。产品线覆盖高压差分探头、交直流电流探头、光隔离电压探头、柔性电流探头、电源纹波探头、单端高频探头及探头专用电源供应器，共 10 大系列、30 余款在售型号；测量电压最高可达 ±60kV，电流最大可达 ±3,000A，带宽最高可达 1GHz，可满足从毫伏级小信号到数十千伏高压的完整测试需求。

公司拥有独立的研发团队与自有生产工厂，从传感结构、电路设计到整机装配全程自主可控，货源充足、交付稳定；已建立覆盖售前选型、售中支持、售后维护的完整服务体系，响应及时。产品广泛应用于开关电源、新能源、功率器件、汽车电子等领域的电子制造企业，以及高等院校、科研院所。

秉承「用户第一、诚信正直、品质保障、乐观坚韧」的核心价值观，以稳定的品质与务实的服务，为每一位客户提供可靠的测量方案。

专利技术



示波器直插供电 · 支持多品牌示波器

一条 BNC 线同时完成信号传输与探头供电，免电源适配器

针对市场上探头的痛点，创新迭代了以下功能：

1. 通用适配，任意示波器直插供电，即插即用无需额外电源
2. 内置超量程磁头保护机制，超限自动防护，守护探头安全
3. 宽温稳定工作，-40°C ~85°C极端高低温环境可靠运行
4. 磁头一体化加固设计，防摔、防震、防尘，适应严苛工况
5. 支持大电流满量程长时间持续测试，连续负载性能强劲

About YQXIONGDI

Founded in 2016 and based in Nanshan District, Shenzhen, Shenzhen Brother Instrument Co., Ltd. is a test & measurement probe manufacturer integrating R&D, production, sales and service.

The company specializes in the independent R&D and manufacturing of oscilloscope probes and supporting equipment. Its product line covers high-voltage differential probes, AC/DC current probes, optically isolated voltage probes, flexible current probes, power ripple probes, single-ended high-frequency probes and dedicated probe power supplies — 10 series with over 30 models in production. With measurement voltage up to ±60 kV, current up to ±3,000 A and bandwidth up to 1 GHz, they meet complete test needs from millivolt-level small signals up to tens of kilovolts.

With an independent R&D team and its own factory, the company keeps full in-house control from sensor structure and circuit design to final assembly, ensuring ample supply and stable delivery. A complete service system covering pre-sales selection, in-sales support and after-sales maintenance guarantees prompt response. Products are widely used by electronics manufacturers in switching power supplies, new energy, power devices and automotive electronics, as well as by universities and research institutes.

Upholding the core values of "Customer First, Integrity, Quality Assurance, Optimism and Perseverance", we provide every customer with reliable measurement solutions through consistent quality and practical service.

Patented Technology



Direct Oscilloscope Powering · Compatible with Multiple Oscilloscope Brands

A single BNC cable carries both signal and probe power — no power adapter required

Addressing the pain points of probes on the market, we have innovated and iterated the following features:

1. Universal compatibility — plugs directly into any oscilloscope for power; plug and play, no extra power supply needed
2. Built-in over-range jaw protection — automatic safeguard beyond limits to protect the probe
3. Wide-temperature operation — reliable from -40° C to +85° C in extreme environments
4. Reinforced one-piece jaw design — drop-proof, shock-proof and dust-proof for harsh conditions
5. Sustained full-scale high-current testing with strong continuous-load performance

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YQXIONGDI

ACP 系电流探头
ACP Series Current Probes

ACP3000 ACP1000 ACP500 ACP300
ACP300A ACP100

型 号 Model	ACP3000	ACP1000	ACP500	ACP300	ACP300A	ACP100
最大电流 Max. Current	±3,000A	±1,000A	±500A	±300A	±300A	±100A
带宽 Bandwidth	DC-30MHz	DC-40MHz			DC-50MHz	DC-150MHz
上升时间 Rise Time	≤ 11.7nS	≤ 8.5nS			≤ 7nS	≤ 2.3nS
精度 Accuracy	±1% 典型值（±3% 保修值） ±1% typ. (±3% warranted)					
低 / 高档最大电流 Max. Current (Low/High Range)	500A/3000A	100A/1000A	100A/500A	100A/300A	30A/300A	100A
交流有效值 AC RMS Current	2100A	700A	350A	210A	210A	70A
衰减比 Attenuation Ratio	100X/1000X				20X/200X	20X
最小灵敏度 Min. Sensitivity	0.1A/1A				0.02A/0.2A	0.02A
最大导线直径 Max. Conductor Diameter	20mm				5mm	
最大裸线电压 Max. Bare Wire Voltage	600V RMS CATII / 300V RMS CATIII	300V RMS CATII / 150V RMS CATIII			150V RMS CATII 100V RMS CATIII	
电源要求 Power Requirements	示波器直接供电 / USB-TYPE C 线供电 Direct oscilloscope power / USB Type-C cable power					
衰减比设置 Attenuation Setting	自动（取决于示波器） Auto (depends on oscilloscope)					
长期最大电流测试 Continuous Max. Current Test	可以 Yes					
最大电流频率降额 Max. Current Frequency Derating	不需要 Not required					
传感器 Sensor	防碰撞，超限测试不易损坏，测试稳定 Collision-proof; over-range tolerant; stable measurement					
使用温度范围 Operating Temp.	-40~+85°C					
高粉尘环境下使用 High-Dust Environment	可以 Yes					
高振动环境下使用 High-Vibration Environment	可以 Yes					
探头头部尺寸 Probe Head Dimensions						
尺寸（长 × 宽 × 高） Dimensions (L×W×H)	17.8×2.8×6.8 cm				17.5×1.8×4 cm	
电缆长度 Cable Length	2 m				2 m	

产品外观图 Product Photos



ACP3000 ACP1000 ACP500 ACP300



ACP300A ACP100

注 Note:

1. 探头先测大电流后，再测小电流的情况下，测完大电流传感器会有剩磁导致零点偏移，需要重新调零后才能测试小电流。
   If the probe measures high current first and then low current, the sensor will retain residual magnetism after the high-current measurement, causing a zero offset; re-zero the probe before measuring low current.
2. 探头精度固定误差值为 ±1%±200mA。 The probe accuracy has a fixed error of ±1% ±200mA.
3. 探头按 3% 精度鉴定性能。 Probe performance is rated at 3% accuracy.

型 号 Model	ACP3000B	ACP1000B
最大电流 Max. Current	±3,000A	±1,000A
带宽 Bandwidth	DC-30MHz	DC-40MHz
上升时间 Rise Time	≤ 11.7nS	≤ 8.5nS
精度 Accuracy	±1% 典型值（±3% 保修值） ±1% typ. (±3% warranted)	
低 / 高档最大电流 Max. Current (Low/ High Range)	500A/3000A	100A/1000A
交流有效值 AC RMS Current	2100A	700A
衰减比 Attenuation Ratio	100X/1000X	
最小灵敏度 Min. Sensitivity	0.1A/1A	
最大导线直径 Max. Conductor Diameter	54mm	
最大裸线电压 Max. Bare Wire Voltage	600V RMS CATII / 300V RMS CATIII	300V RMS CATII / 150V RMS CATIII
电源要求 Power Requirements	示波器直接供电 / USB-TYPE C 线供电 Direct oscilloscope power / USB Type-C cable power	
衰减比设置和调零 Attenuation Setting & Zeroing	自动识别衰减，一键调零 Auto attenuation recognition, one-touch zeroing	
长期最大电流测试 Continuous Max. Current Test	可以 Yes	
最大电流频率降额 Max. Current Frequency Derating	不需要 Not required	
传感器 Sensor	防碰撞，超限测试不易损坏，测试稳定 Collision-proof; over-range tolerant; stable measurement	
使用温度范围 Operating Temp.	-40~+85°C	
高粉尘环境下使用 High-Dust Environment	可以 Yes	
高振动环境下使用 High-Vibration Environment	可以 Yes	
探头头部尺寸 Probe Head Dimensions		
尺寸 Dimensions	206 mm x 48 mm x 105 mm	
钳口直径 Jaw Diameter	54 mm	
电缆长度 Cable Length	2 m	

产品外观图 Product Photos



ACP3000B



ACP1000B

型 号 Model	ACP3050	ACP3100
最大电流 Max. Current	±30A	±30A
带宽 Bandwidth	DC-50MHz	DC-100MHz
上升时间 Rise Time	≤ 7nS	≤ 3.5nS
精度 Accuracy	5A:±1%±1mA / 30A:±1%±10mA	
量程 Range	5A/30A	
最大连续电流 Max. Continuous Current	30A（随频率上升而下降） 30 A (decreases with frequency)	
峰值电流 Peak Current	50A	
衰减比 Attenuation Ratio	1X/10X	
最小灵敏度 Min. Sensitivity	0.001A/0.01A	
最大导线直径 Max. Conductor Diameter	5mm	
最大裸线电压 Max. Bare Wire Voltage	300V CATI	
电源要求 Power Requirements	适配器供电 AC adapter powered	
衰减比设置 Attenuation Setting	手动调节 Manual	
最大电流频率降额 Max. Current Frequency Derating	需要 Required	
传感器 Sensor	\	
使用温度范围 Operating Temp.	10~+40°C	
高粉尘 / 震动环境下使用 High-Dust / Vibration Environment	\	
附件 Accessories	BNC 同轴线 1 米，适配器 12V/1.5A 1 m BNC coaxial cable, 12 V/1.5 A adapter	
探头头部尺寸 Probe Head Dimensions		
尺寸（长×宽×高）Dimensions (L×W×H)	18.5×1.9×3.1 cm	
电缆长度 Cable Length	2 m	

产品外观图 Product Photos



ACP3050 ACP3100

型 号 Model	P5130	P5130A	P5150A	P5560A	P5700A
衰减比 Attenuation Ratio	50X/500X			200X/2000X	100X/1000X
最大差分 Max. Differential Voltage	50X:±130V		50X:±150V	200X:±560V	100X:±700V
测量电压 Measurement Voltage	500X:±1300V		500X:±1500V	2000X:±5600V	1000X:±7000V
精度 Accuracy	± 2%				
上升时间 Rise Time	≤ 7ns	≤ 3.5ns	≤ 2ns	≤ 3.5ns	≤ 3.6ns
输入阻抗 Input Impedance	4MΩ/7pF(单端对地 Single-ended) 8MΩ/3.5pF(差分 Differential)		5MΩ/4pF(单端对地 Single-ended) 10MΩ/2pF(差分 Differential)	25MΩ/2.5pF(单端对地 Single-ended) 50MΩ/1.25pF(差分 Differential)	20MΩ/5pF(单端对地 Single-ended) 40MΩ/2.5pF(差分 Differential)
带宽 Bandwidth	50MHz	100MHz	200MHz	100MHz	
最大共模输入电压 Max. Common-Mode Input Voltage	600V, CATIII 1000V, CATII			1000V, CATIII 2000V, CATII	1000V, CATIII 2300V, CATII
噪声 Noise	≤ 1.5mVrms(50X) ≤ 1mVrms(500X)		≤ 50mVrms(50X) ≤ 300mVrms(500X)	≤ 160mVrms(200X) ≤ 920mVrms(2000X)	≤ 200mVrms(100X) ≤ 1.2Vrms(1000X)
CMRR CMRR	DC: ≥ 80dB / 100Hz: ≥ 60dB / 1MHz: > 50dB				
机 械 规 格 Mechanical Specifications					
输入线长度 Input Cable Length	约 53cm Approx. 53cm				
输出线长度 Output Cable Length	约 90cm Approx. 90cm				
鳄鱼夹 Alligator Clip	约 85×40×13(mm) Approx. 85×40×13(mm)				
探钩 Probe Hook	约 160×45×13(mm) Approx. 160×45×13(mm)				
配线 Lead Wire	约 90cm Approx. 90cm				
探头主体 Probe Body	120×55×24(mm)		176X65X25(mm)	145X59X25(mm)	176X65X25(mm)
质量 Weight	约 160g Approx. 160g		约 216g Approx. 216g	约 216g Approx. 216g	约 228g Approx. 228g
环 境 特 性 Environmental Characteristics					
工作温度 Operating Temp.	0~50°C			0~40°C	0~50°C
储存温度 Storage Temp.	-30~70°C			-10~45°C	-30~70°C
工作湿度 Operating Humidity	小于 85%RH (< 85%RH)				
储存湿度 Storage Humidity	小于 90%RH (< 90%RH)				
工作海拔高度 Operating Altitude	3000m				
贮存海拔高度 Storage Altitude	12000m				

产品外观图 Product Photos



P5130 P5130A



P5150A



P5560A



P5700A

低噪声电源纹波探头
Low-Noise Power Ripple Probes

PR1000 PR4000

型 号 Model	PR1000	PR4000
上升时间 Rise Time	≤ 280ps（小信号，20%-80%） ≤ 280 ps (small signal, 20%–80%)	≤ 88ps（小信号，20%-80%） ≤ 88 ps (small signal, 20%–80%)
带宽（仅探头） Bandwidth (probe only)	DC-1GHz	DC-4GHz
直流输入电阻 DC Input Resistance	50kΩ	50kΩ
输入电容 Input Capacitance	≤ 1pF	≤ 0.8pF
直流衰减精度 DC Attenuation Accuracy	±1% 典型值 ±1% typ.	
衰减比 Attenuation Ratio	1.25X	
直流输入信号范围 DC Input Signal Range	±1V	
输入偏置范围 Input Offset Range	±60V	
偏置电压精度 Offset Voltage Accuracy	±2%	
最大无损输入电压 Max. Non-destructive Input Voltage	±100V（直流 + 交流峰值） ±100 V (DC + peak AC)	
线性 Linearity	输入信号范围内≤ 1% 或更低 ≤ 1% or less over the input range	
直流偏置漂移 DC Offset Drift	屏幕上显示 1mV/°C或更低 1 mV/° C or less on screen	
衰减比设置 Attenuation Setting	手动 Manual	
示波器阻抗要求 Oscilloscope Impedance Requirement	50Ω	
信号延迟 Signal Delay	7.2ns±0.2ns	
供电方式 Power Supply	示波器直接供电 / USB-TYPE C 线供电 Direct oscilloscope power / USB Type-C cable power	
使用温度范围 Operating Temp.	0~+50°C	
电缆长度 Cable Length	1.3 m (SMA cable)	

产品外观图 Product Photos



PR1000



PR4000

AP 系单端探头
AP Series Single-Ended Probes

AP1500 AP2500

型 号 Model	AP1500	AP2500
上升时间 Rise Time	≤ 230pS	≤ 140pS
带宽 (仅探头) Bandwidth (probe only)	DC-1.5GHz	DC-2.5GHz
输入阻抗 Input Impedance	1MΩ	1MΩ
输入电容 Input Capacitance	≤ 1pF	≤ 0.8pF
直流衰减精度 DC Attenuation Accuracy	±2% 典型值 ±2% typ.	
衰减比 Attenuation Ratio	10X	
输入信号范围 Input Signal Range	±16V	
输入偏置范围 Input Offset Range	±16V	
输出零值 Output Zero	屏幕上显示≤ 10mV	
最大无损输入电压 Max. Non-destructive Input Voltage	±30V（直流 + 交流峰值） ±30 V (DC + peak AC)	
线性 Linearity	输入信号范围内≤ 1% 或更低 ≤ 1% or less over the input range	
直流偏置漂移 DC Offset Drift	屏幕上显示 1mV/°C或更低 1 mV/° C or less on screen	
衰减比设置 Attenuation Setting	自动（取决于示波器） Auto (depends on oscilloscope)	
示波器阻抗要求 Oscilloscope Impedance Requirement	50Ω	
信号延迟 Signal Delay	5.4ns±0.2ns	
供电方式 Power Supply	示波器直接供电 / USB-TYPE C 线供电 Direct oscilloscope power / USB Type-C cable power	
使用温度范围 Operating Temp.	0~+50°C	
电缆长度 Cable Length	1.3 m	
探 头 头 部 尺 寸 Probe Head Dimensions		
尺寸（长 × 宽 × 高） Dimensions (L×W×H)	19.4×7.6×3.3 mm	
补偿盒尺寸 Compensation Box Dimensions		
尺寸（长 × 宽 × 高） Dimensions (L×W×H)	86×28×34 mm	

产品外观图 Product Photos



AP1500



AP2500

AOP 系光隔离电压探头

AOP Series Optically Isolated Voltage Probes

AOP015 AOP025 AOP035

型 号 Model	AOP015	AOP025	AOP035
带宽 Bandwidth	150MHz	250MHz	350MHz
终端负载 Terminal Load	1MΩ	1MΩ	1MΩ
输出电压范围 Output Voltage Range	±1.25V		
主机噪声典型值 Mainframe Noise (typ.)	2mV		
直流精度 DC Accuracy	≤ 1%		
隔离电压（DC+ Peak AC） Isolation Voltage (DC + Peak AC)	±60kV		
标配衰减器 + 主机延时 Attenuator + Mainframe Delay	15.3 ns (2 m fiber)		
供电方式 Power Supply	前端：电池供电，工作约 8 小时；待机时间 30 天 Front end: battery powered, approx. 8 h operation, 30 days standby 后端：USB 5V / 示波器接口直接供电 Rear end: USB 5 V / direct oscilloscope interface power		
噪声 Noise	≤ 50 nV/root Hz	≤ 50 nV/root Hz	≤ 50 nV/root Hz
自动校准 Auto Calibration	有 Yes		
工作温度 Operating Temp.	-10°C ~+60°C		

产品外观图 Product Photos		
		
AOP015	AOP025	AOP035

ARCP 系柔性电流探头
ARCP Series Flexible Current Probes

ARCP0300 ARCP0600 ARCP3000

型 号 Model	ARCP0300	ARCP0600	ARCP3000
带宽 Bandwidth	9Hz-30MHz	12Hz-30MHz	1Hz-16MHz
峰值电流 Peak Current	300A	600A	3000A
最小电流 Min. Current	250mA	500mA	500mA
灵敏度 Sensitivity	20mV/A	10mV/A	2mV/A
衰减比 Attenuation Ratio	50X	100X	500X
精度（典型值） Accuracy (typ.)	±2%	±2%	±2%
线圈直径 Coil Diameter	1.7mm	4.5mm	8.5mm
供电方式 Power Supply	USB 5V / 示波器接口直接供电 USB 5 V / direct oscilloscope interface power		
端接 Termination	1MΩ		
工作温度 Operating Temp.	-10°C ~+60°C		

产品外观图 Product Photos



ARCP0300



ARCP0600



ARCP3000

ADP 系低压高频差分探头
ADP Series LV-HF Differential Probes

ADP0500 ADP1000 ADP1500

型 号 Model	ADP0500	ADP1000	ADP1500
最大输入电压（非破坏输入） Max. Input Voltage (non-destructive)	±100V	±100V	±25V
带宽 Bandwidth	500MHz	1GHz	1.5GHz
上升时间 Rise Time	≤ 700ps	≤ 350ps	≤ 265ps
精度 Accuracy	±5%		
衰减 Attenuation	5X/50X	5X/50X	1X/10X
输入偏置范围 Input Offset Range	±7V		
差分输入电容 Differential Input Capacitance	≤ 1pF		
差分输出电阻 Differential Output Resistance	1MΩ		200kΩ
带宽限制档位 Bandwidth Limit	1MHz/100KHz/100Hz	1MHz/100KHz/100Hz	/
电源要求 Power Requirements	示波器直接供电 / USB-TYPE C 线供电 Direct oscilloscope power / USB Type-C cable power		
衰减比设置 Attenuation Setting	手动切换 / 自动识别衰减 Manual switching / auto recognition		
电缆长度 Cable Length	1200mm		
使用温度范围 Operating Temp.	0~+40°C		

产品外观图 Product Photos



ADP0500



ADP1000



ADP1500

型号 Model	P6015A
最大输入电压 Max. Input Voltage	20kV（DC 或 RMS）/ 40kV 峰值 (100ms 脉冲宽度) 20 kV (DC or RMS) / 40 kV peak (100 ms pulse width)
带宽 Bandwidth	100MHz
上升时间 Rise Time	3.5nS
衰减 Attenuation	1000X
负载 Load	100MΩ/3.8pF
精度 Accuracy	3%
最大浮地电压 Max. Floating Voltage	不适用 N/A
补偿范围（pF） Compensation Range (pF)	7 to 49
标称长度 Nominal Length	3m
附件 Accessories	大钩式端部、小钩式端部、接地线、鳄鱼夹头 Large hook tip, small hook tip, ground lead, alligator clip
探头头部尺寸 Probe Head Dimensions	
长度 Length	约 34.5 cm Approx. 34.5 cm
外径 Outer Diameter	约 8.9 cm Approx. 8.9 cm
补偿端 Compensation End	约 2.5 X 4.1 X 8.3 cm Approx. 2.5 X 4.1 X 8.3 cm

产品外观图 Product Photos



P6015A

型号 Model	A621	A622
测量类型 Measurement Type	交流电流 AC Current	交直流电流 AC+DC Current
频率范围 Frequency Range	10Hz-100kHz	DC-100kHz
最大输入电流 Max. Input Current	2000A peak	100A peak
量程 Range	0.1A-30A peak 0.1A-300A peak 1A-2000A peak	0.05A-10A peak 0.05A-10A DC 1A-100A peak 1A-100A DC
输出灵敏度 Output Sensitivity	1mV/A、10mV/A、100mV/A	10mV/A、100mV/A
最大导线直径 Max. Conductor Diameter	52 mm(2.05 in)	11.8 mm(0.46 in)
接口 Interface	BNC	BNC
最大裸线电压 Max. Bare Wire Voltage	600V CATIII	600V CATIII
适配设备 Compatible Devices	示波器、数字万用表 Oscilloscope, digital multimeter	示波器、数字万用表 Oscilloscope, digital multimeter
安全标准 Safety Standards	UL3111-2-032, CSA1010.2.032 / EN61010-2-032, IEC61010-2-032	UL3111-2-032, CSA1010.2.032 / EN61010-2-032, IEC61010-2-032

产品外观图 Product Photos



A621



A622

注 Note：

1. A621 仅支持交流测量，不支持直流；A622 为霍尔效应探头，支持直流 + 交流测量。
   A621 supports AC measurement only, not DC; A622 is a Hall-effect probe supporting DC + AC measurement.
2. 需要搭配屏蔽香蕉插头适配器，才可接入数字万用表；直接 BNC 接示波器使用。
   A shielded banana-plug adapter is required to connect to a digital multimeter; connect directly to an oscilloscope via BNC.
3. 应用场景：电机驱动、逆变器、开关电源、航空电子设备测试。
   Applications: motor drives, inverters, switching power supplies, and avionics testing.
4. A622 为内置方形 9V 电池供电，电池可拆卸更换。
   A622 is powered by a built-in 9V rectangular battery, which is removable and replaceable.

型号 Model	BT1000	BT1002	BT1003	BT1004
通道数量 Number of Channels	1 通道 1-channel	2 通道 2-channel	3 通道 3-channel	4 通道 4-channel
输出电压 Output Voltage	DC ±12 ±0.5V			
额定输出电流 Rated Output Current	±1.4A			
纹波电压 Ripple Voltage	额定输出电流下，峰峰值≤ 50mV ≤ 50 mVp-p at rated output current			
电流输出范围 Current Output Range	0 ~ 1.4A			
额定输入电压 Rated Input Voltage	100~240 VAC（允许 ±10% 电压波动） 100–240 VAC (±10% fluctuation allowed)			
输入频率 Input Frequency	50/60 Hz			
最大额定功耗 Max. Rated Power Consumption	130 VA			
安装类别 Installation Category	II 类，预期瞬态过电压 2500V Category II, transient overvoltage 2500 V			
兼容传感器 Compatible Probes	是德（Keysight）、横河（Yokogawa）等品牌探头 Keysight, Yokogawa and other brand probes			
机 械 规 格 Mechanical Specifications				
尺寸（长 × 宽 × 高） Dimensions (L×W×H)	20×8×11.9 cm（7.9×3.1×4.7 in）			
整机重量 Overall Weight	约 0.95 kg Approx. 0.95 kg			
标配附件 Standard Accessories	电源线 Power cord			
环 境 特 性 Environmental Characteristics				
工作温度 Operating Temp.	0°C ~ 40°C（32 °F ~ 104 °F）			

产品外观图 Product Photos





BT1004（BT1000/1002/1003 仅通道有区别）
BT1004 (BT1000/1002/1003 differ only in the number of channels)



