Micsig®

ARTEMES

Tablet Oscilloscope

Smart Oscilloscope

Automotive Oscilloscope

High Voltage Differential Probe

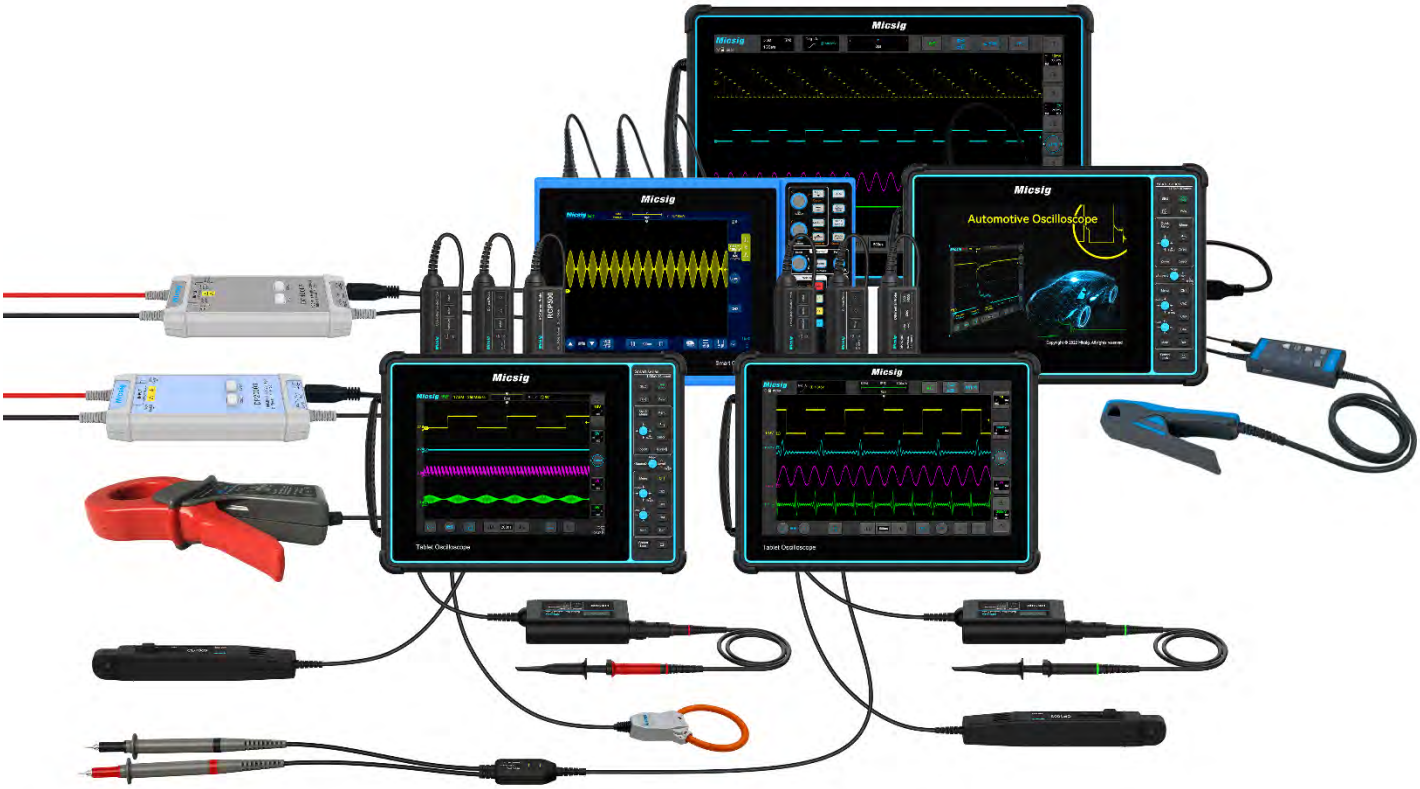
High Frequency AC/DC Current Probe

Low Frequency AC/DC Current Probe

AC Current Probe

Accessories

PRODUCT CATALOG



Shenzhen Micsig Technology Co., Ltd.

Tablet Oscilloscope

NEW

TO Series

- Equipped with Micsig latest SigtestUI™ multitasking system
- 10.1" integrated touchscreen with 1280*800 resolution
- Intelligent bi-directional probe interface - Micsig UPI*
- Powerful bus trigger and decode: UART, CAN, LIN, SPI, I²C
- Excellent connectivity: Wi-Fi, HDMI, USB 3.0/2.0, USB Type-C
- User-friendly UI & Android OS make sure to use at ease
- Large built-in battery, works on the bench or in the field
- Segmented Memory support to capture 10000 events

*UPI: Universal Probe Interface

Model / Ordering Number	TO3004	TO2004	TO1004
Analog Channels	4	4	4
Bandwidth	300 MHz	200 MHz	100 MHz
Rise Time	⩽1.16ns	⩽1.75ns	⩽3.5ns
Sampling Rate (Max.)	2 GSa/S		1 GSa/S
Memory Depth (Max.)	220 Mpts		110 Mpts
Waveform Capture Rate (Max.)	300,000 wfms/s		130,000 wfms/s
Input Sensitivity Range	1mV/div~10V/div (1MΩ); 1mV/div~1V/div (50Ω)		1mV/div ~ 10V/div (1MΩ)
Bandwidth limit	20MHz, High Pass, Low Pass (to 30Hz)		20MHz, High Pass, Low Pass (to 30KHz)
Segmented Storage	Support		Not support
Internal Storage	32GB		
I/O Ports	Wi-Fi, USB 3.0/2.0 Host, USB type-C, Grounding, HDMI, Trigger out		
Vertical Resolution	8-bit		
Display	10.1" TFT-LCD capacitive touch screen (1280*800), 11*10 grids		
Trigger Types	Edge, Pulse Width, Logic, Video, Time Out, Slope, Runt, N Edge		
Serial Trigger and Decode	Std.: UART, LIN, CAN, SPI, I²C; Opt.: MIL-STD-1553B, ARINC-429		
Math Function	+、-、*、/, FFT, AX+B, Advanced Math		
Remote Control	PC Software, Smartphone App (iOS & Android)		
Dimension / Weight	265*192*50 mm / 1.9 KG (with battery)		
Battery (built-in)	7.4V, 7500 mAh Li-ion battery		

Tablet Oscilloscope

NEW

Smart Series

- Robust hardware design, intuitive Android operation system
- 32GB storage to save large data / videos / screenshots
- Excellent connectivity: Wi-Fi, HDMI, USB 3.0/2.0 Host/Type-C
- Support various protocol decoding: UART, CAN, LIN, SPI, I²C
- 8" integrated LCD screen brings premium touch experience
- Innovative PC & Smartphone App remote control
- Up to 5H battery life & compact size, perfect for field work
- Intelligent bi-directional probe interface - Micsig UPI

Model / Ordering Number	STO1004
Analog Channels	4
Bandwidth	100 MHz
Rise Time	⩽ 3.5ns
Sampling Rate (Max.)	1 GSa/S (single-channel)
Memory Depth (Max.)	70 Mpts (single-channel)
Waveform Capture Rate (Max.)	130,000 wfms/s
Input Sensitivity Range	1mV/div~10V/div (1MΩ)
Internal Storage	32GB
Vertical Resolution	8-bit
I/O Ports	Wi-Fi, USB 3.0/2.0 Host, USB type-C, Grounding, HDMI, Trigger out
Display	8" TFT-LCD capacitive touch screen (800*600), 14*10 grids
Trigger Types	Edge, Pulse Width, Logic, Video, Time Out, Slope, Runt, N Edge
Serial Trigger and Decode	Std: UART, LIN, CAN, SPI, I²C ; Opt: MIL-STD-1553B, ARINC-429
Bandwidth Filter	20MHz, High Pass, Low Pass (to 30KHz)
Measurements	31 types, of which up to 10 types can be displayed at any time
Remote Control	PC Software, Smartphone App (iOS & Android)
Dimension / Weight	265*192*50 mm / 1.9 KG (with battery)
Battery (built-in)	7.4V, 7500 mAh Li-ion battery

Smart Oscilloscope

STO1000C/E Series

- World's first Android-based digital oscilloscope
- 2 analog channels, up to 150MHz bandwidth
- Support LAN, Wi-Fi, USB2.0, USB Device, HDMI, Trigger out
- Powerful bus decoding: UART, CAN, LIN, SPI, I²C
- Built-in 7500mAh battery, works where you work
- Full touch screen + physical button panel operation
- 8GB capacity to store large data & video recording
- 256-Level intensity grading and color temperature display

Series	STO1000C Series		STO1000E Series	
Model / Ordering Number	STO1102C	STO1152C	STO1102E	STO1152E
Analog Channels	2			
Bandwidth	100MHz	150MHz	100MHz	150MHz
Rise Time	⩽3.5ns	⩽2.33ns	⩽3.5ns	⩽2.33ns
Sampling Rate (Max.)	1 GSa/S (single-channel)			
Memory Depth (Max.)	28 Mpts (single-channel)		70 Mpts (single-channel)	
Waveform Capture Rate (Max.)	80,000 wfms/s		130,000 wfms/s	
Input Sensitivity Range	1mV/div~10V/div (1MΩ)			
I/O Ports	Wi-Fi, USB host, USB device, LAN, HDMI, Trigger out			
Vertical Resolution	8-bit			
Display	8" TFT-LCD capacitive touch screen (800*600), 14*10 grids			
Trigger Types	Edge, Pulse Width, Logic, Video, Time Out, Slope, Runt, N Edge			
Serial Trigger and Decode	Std: UART, LIN, CAN, SPI, I²C ; Opt: MIL-STD-1553B, ARINC-429			
Bandwidth Filter	20MHz, High Pass, Low Pass (to 30KHz)			
Measurements	31 types, of which up to 10 types can be displayed at any time			
Remote Control	PC Software, Smartphone App (iOS & Android)			
Dimension / Weight	280*180*50 mm / 1.75 KG (with battery)			
Battery (built-in)	7.4V, 7500 mAh Li-ion battery			

*Note: Plus version has the same configurations as above

Smart Oscilloscope

STO2000C Series

- 2 analog channels, up to 300MHz bandwidth
- Ultra 280Mpts memory depth with 2GSa/s sampling
- 8" LCD capacitive touchscreen high resolution display
- Serial bus triggering & decoder: UART, CAN, LIN, SPI, I²C
- Built-in 7500mAh battery, support 4h field work
- Support segmented storage and channel label function
- HDMI and PC connection, easy for live demonstration
- Hardware based digital filtering to eliminate interferences

Model / Ordering Number	STO2202C	STO2302C
Analog Channels	2	
Bandwidth	200 MHz	300 MHz
Rise Time	⩽ 1.75ns	⩽ 1.16ns
Sampling Rate (Max.)	2 GSa/S (single-channel)	
Memory Depth (Max.)	280 Mpts (single-channel)	
Waveform Capture Rate	130,000 wfms/s (normal mode), 270,000 wfms/s (segmented mode)	
Input Sensitivity Range	1mV/div~10V/div (1MΩ), 1mV/div~1V/div (50Ω)	
Internal Storage	8GB	
I/O Ports	Wi-Fi, USB host, USB device, LAN, HDMI, Trigger out	
Vertical Resolution	8-bit	
Display	8" TFT-LCD capacitive touch screen (800*600), 14*10 grids	
Trigger Types	Edge, Pulse Width, Logic, Video, Time Out, Slope, Runt, N Edge	
Serial Trigger and Decode	Std: UART, LIN, CAN, SPI, I²C ; Opt: MIL-STD-1553B, ARINC-429	
Bandwidth Filter	20MHz, High Pass, Low Pass (to 30Hz)	
Measurements	31 types, of which up to 10 types can be displayed at any time	
Remote Control	PC Software, Smartphone App (iOS & Android)	
Dimension / Weight	280*180*50 mm / 1.75 KG (with battery)	
Battery (built-in)	7.4V, 7500 mAh Li-ion battery	

Automotive Oscilloscope

NEW

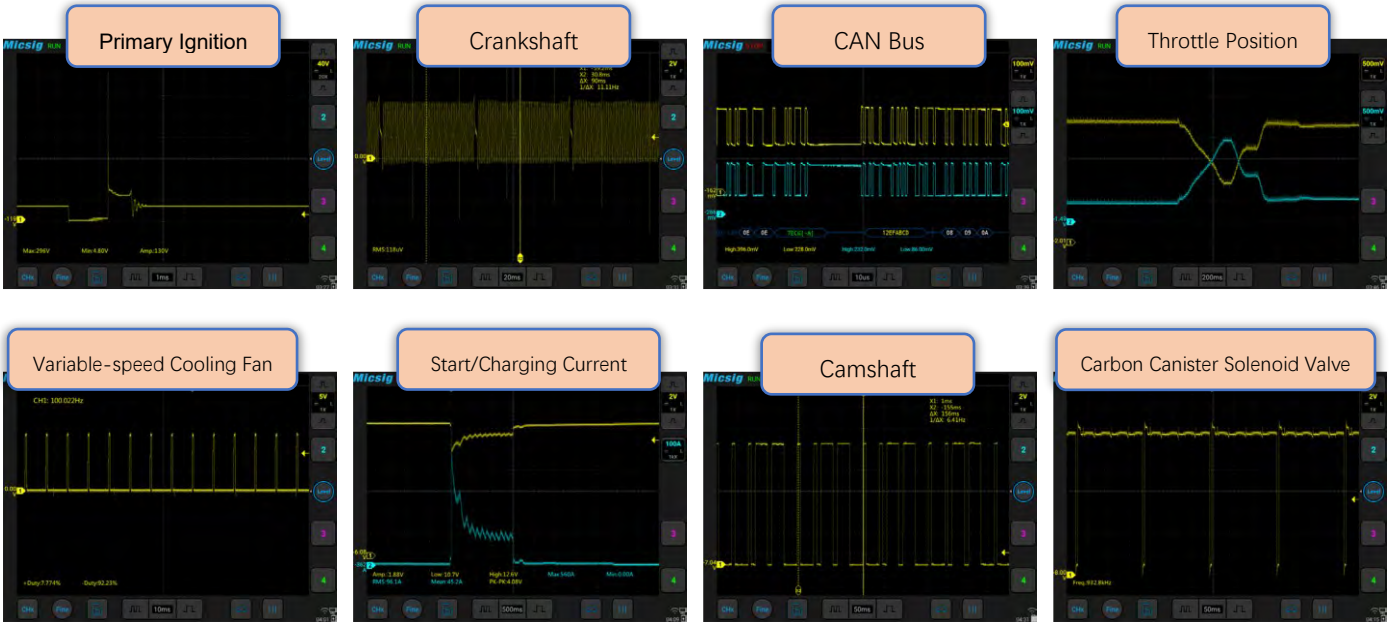
SATO1000 Series

Model / Ordering Number	SATO1004
Analog Channels	4
Bandwidth	100 MHz
Sampling Rate (Max.)	1 GSa/S (single-channel)
Memory Depth (Max.)	70 Mpts (single-channel)
Waveform Capture Rate (Max.)	130,000 wfms/s
Support Diagnostic Tests	Charging Circuits, Starter Circuits, Sensors, Actuators, Ignition, Networks (CAN, CAN FD, LIN, Flexray, K line), Combination Tests
Bandwidth Filter	Full bandwidth, Low pass
I/O Ports	Wi-Fi, USB 3.0/2.0 Host, USB type-C, Grounding, HDMI, Trigger out
Display	8" TFT-LCD touch screen (800*600), 14*10 grids
Dimension / Net Weight	265*192*50mm / 1.9kg (with battery)

Features

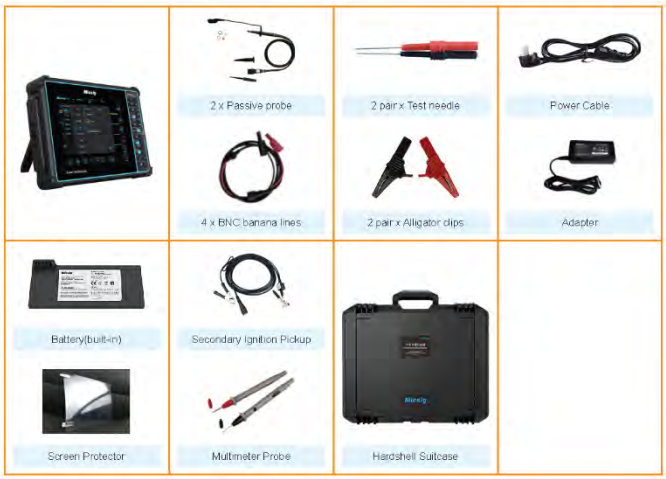
- ✧ Comprehensive auto diagnostic presets package
- ✧ Powerful signal capture and analysis capabilities
- ✧ Support PC & Smartphone App remote control
- ✧ Portable design with all-in-one functions
- ✧ HDMI function for training & education
- ✧ Life-long free firmware online upgrade

References



SATO1004 Standard Kit

SATO1004 Master Kit

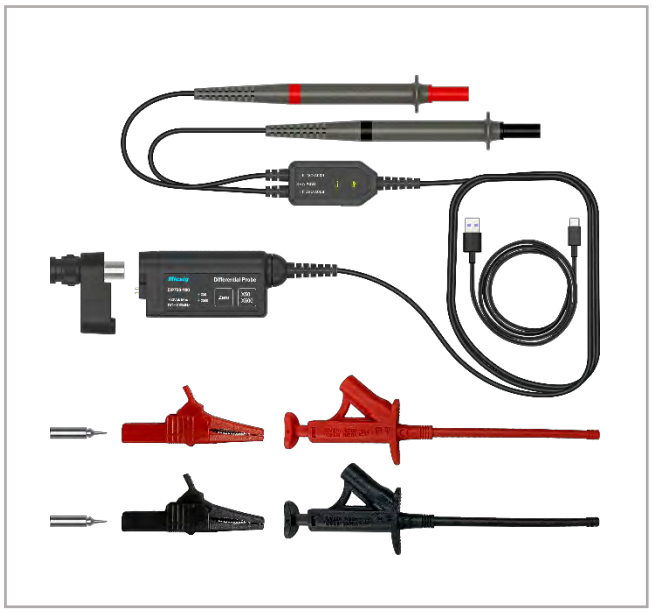


High Voltage Differential Probe

DP Series

NEW

▲ DP10007 / DP10013 / DP20003



▲ DP750-100

- ✧ High accuracy, low noise, measuring voltage up to 5600V
- ✧ Most compact design with professional performances
- ✧ One-press Zero calibration & Automatic overrange alarm
- ✧ Powered by oscilloscope USB output, no adapter needed
- ✧ DP750-100 can be powered directly by Micsig UPI oscilloscope
- ✧ DP750-100 can communicate with Micsig UPI oscilloscope for Auto Sync attenuation setting

Model / Ordering Number	DP10007	DP10013	DP20003	DP750-100
Bandwidth	100MHz	100MHz	100MHz	100MHz
Rise Time	⩽ 3.5ns	⩽ 3.5ns	⩽ 3.5ns	⩽ 3.5ns
Attenuation Range	10X, 100X	50X, 500X	200X, 2000X	50X, 500X
Gain Accuracy	±1%	±2%	±2%	±2%
Max. Differential Test Voltage (DC+AC PK)	70V (10X) 700V (100X)	130V (50X) 1300V (500X)	560V (200X) 5600V (2000X)	75V (50X) 750V (500X)
Max. Input Common Mode Voltage	CAT II 600V CAT I 1000V	CAT II 1000V	CAT III 1000V	CAT II 1000V

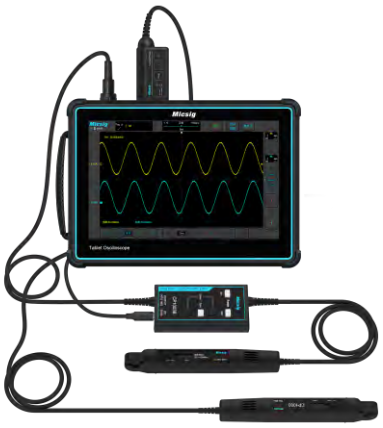
Table continued...

	DP10007	DP10013	DP20003	DP750-100
Input Referred Noise	⩽ 15mVrms (10X) ⩽ 60mVrms (100X)	⩽40mVrms (50X) ⩽230mVrms (500X)	⩽160mVrms (200X) ⩽920mVrms (2000X)	⩽240μVrms （50X、500X）
Common Mode Rejection Ratio (CMRR)	> 80dB (50Hz / DC) > 60dB (20KHz) > 50dB (1MHz)	> 80dB (DC) > 60dB (100KHz) > 50dB (1MHz)	> 80dB (DC) > 60dB (100KHz) > 50dB (1MHz)	> 80dB (DC) > 60dB (100KHz) > 50dB (1MHz)
Input Impedance	8MΩ/1.25pF (differential) 4MΩ/2.5pF (single end to ground)	10MΩ/1pF (differential) 5MΩ/2pF (single end to ground)	50MΩ/1.25pF (differential) 25MΩ/2.5pF (single end to ground)	8MΩ/1.25pF (differential) 4MΩ/2.5pF (single end to ground)
Output Voltage	≤ 7V	⩽ 3V	⩽ 3V	⩽ 1.5V
Power	1.25W	0.85W	0.85W	1W
Power Supply	DC 5V, USB	DC 5V, USB	DC 5V, USB	DC 5V, USB; UPI
Overrange Alarm	Flashing Light			
Input cable length	45cm			15cm
Output cable length	90cm			100cm
Operating temperature	0℃-45℃			
Operating humidity	10%-85%			

High Frequency AC/DC Current Probe

NEW

CP503 / CP1003
CP503B / CP1003B



◄ CP503B / CP1003B

◄ CP503 / CP1003

- AC/DC measuring capabilities
- Degaussing / Auto Zero setting
- Overload flashing light indicator
- Superior 1% DC accuracy (typical)
- USB adapter or Micsig UPI power supply
- Auto match Range with Micsig UPI oscilloscope (CP503/CP1003 only)

Model / Ordering Number	CP503	CP1003	CP503B	CP1003B
Bandwidth	50MHz	100MHz	50MHz	100MHz
Rise Time	⩽ 7ns	⩽ 3.5ns	⩽ 7ns	⩽ 3.5ns
Power interface	Micsig UPI		Standard BNC	
Range	6A (2X) / 30A (10X)			
Output Sensitivity	1V/2A (6A) 1V/10A (30A)			
DC Accuracy (typical)	±1%±10mA（6A） ±1%±50mA（30A）			
Delay	< 6ns (6A) < 6ns (30A)		< 30ns (6A) < 30ns (30A)	
Input Current Range	20mA~6Apk（6A） 50mA~30Apk（30A）			
Max. Current Input	30Apk，60Apk-pk，21.21Arms			
Noise	≤ 1.4 mA RMS (@ 20 MHz; Range 30A, 10X)			
Max. Working Voltage	CAT II 300V			
Max. Floating Voltage	CAT II 300V			
Max. Conductor Diameter	5mm			
Overload Indicator	Flashing light			
Power Supply	DC 12V		DC 5V 3A	

Low Frequency AC/DC Current Probe

CP2100 Series

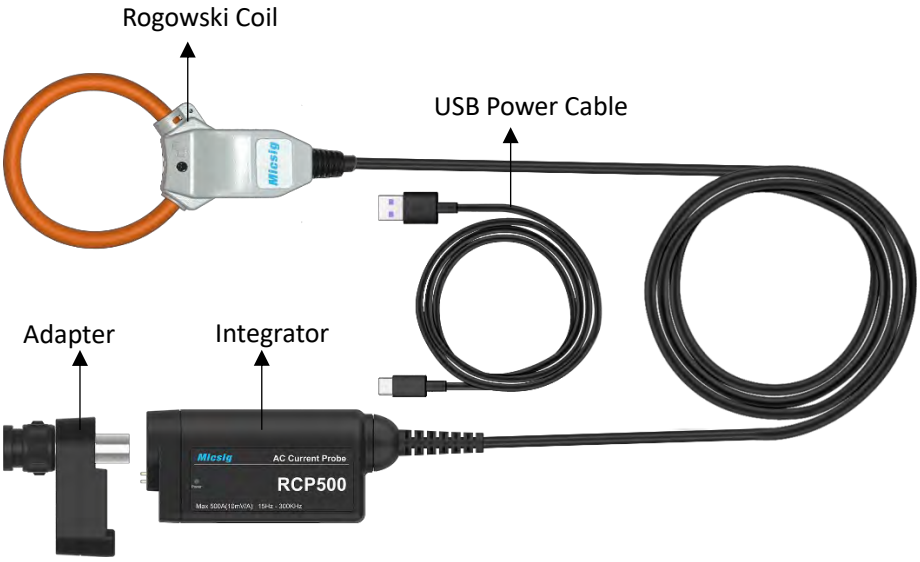
- Bandwidth up to 2.5MHz
- Switchable Current Range: 10A / 100A
- Compact design with reliable performance
- USB power supply, no need extra adapter
- Compatible with any BNC-type oscilloscope

Model / Ordering Number	CP2100A	CP2100B
Bandwidth	DC~800KHz	DC~2.5MHz
Rise Time	⩽437.5ns	⩽140ns
Range	10A/100A	
Output Sensitivity	0.1V/A (10A) ; 0.01V/A (100A)	
DC Accuracy (typical)	3%±50mA (10A) 4%±50mA (100A, 500mA~40Apk) 15% (100A, 40Apk~100Apk)	
Signal Delay	＜150ns (10A) ＜200ns (100A)	
Current Range	50mA~10Apk (10A) 1A~100Apk (100A)	
Max. Measuring Range	100Apk, 70.7Arms (DC+AC, pk) 200Apk-pk, 70.7Arms (AC)	
Max. Working Voltage	CATⅢ 300V ; CATⅡ 600V	
Max. Conductor Diameter	13mm	
Overrange Alarm	Buzzer beeps, flashing light	
Power Supply	DC 5V	
Input Cable Length	45cm	
Output Cable Length	90cm	
Operating Temperature	0℃-50℃	
Operating Humidity	10%-85%	

AC Current Probe

NEW

RCP500



Low Noise
Small Size

Safe & Easy
No Overheating

USB Power
Supply

Micsig UPI
Interface

Model / Ordering Number	RCP500
Bandwidth	15Hz - 300KHz (-3dB)
Current Range	200mA (pk) - 500A (pk)
Output Sensitivity	10mV/A
Output Noise	＜2mV rms
Typical Accuracy	1%
Phase Accuracy	≤0.8° (45Hz-66Hz)
Offset Voltage	±1mV or below
Max. Voltage	AC 10kV RMS (1 minute), (50Hz/60Hz) (Rogowski coil part only)
Conductor Under Test Diameter	≤Φ50mm
Power Supply	Micsig UPI probe interface; Adapter (USB cable)
Conductor Positional Accuracy	Within ±1% (Deviation from the Center)
Influence of External Magnetic Fields	1.5% f.s. or below (400A/m,50Hz/60Hz)
Coil to Integrator Cable Length	2m (customizable)
Operating Temperature	-20-70℃
Operating Altitude	≤ 2000m

AC Current Probe

ACP1000

Model	Input Current	Rated Output	Frequency / Hz	Rated Load	Accuracy
ACP1000	0.1-10A	100mV/A	10-100K	⩾100K Ohms	3%±10mV
	0.1-100A	10mV/A			2%±5mV
	1-1000A	1mV/A			1%±1mV

- ✧ Current range: 0.1A-1000A
- ✧ Operating frequency: 10Hz–100kHz
- ✧ Max. peak current: 2000A (2s)
- ✧ Output signal: mV/A
- ✧ Maximum accuracy: 1%
- ✧ Safety category: CAT III 600V
- ✧ Max. conductor diameter: 52mm

Accessories

MS-A-001

BNC to banana lead

MS-A-004

IC pincer clips / pair

MS-A-005

multimeter probe / pair

MS-A-006

alligator clips B / pair

MS-A-007

piercing needle / 5pcs

MS-A-008

automotive pickup

MS-A-009

flexible needle / pair

MS-A-010

multimeter pen

MS-A-011

alligator clips S / pair

MS-A-012

piercing test hook

T3100

HV probe 2000V/100X

P130A

BNC probe 600v/10X

P100

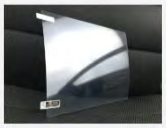
BNC probe 300v/100MHz

P300

BNC probe 300v/300MHz

MS-Mask

protective screen mask



MS-Adapter

power adapter 12V 4A

MS-HB

oscilloscope handbag

MS-SC-1

Suitcase for STO1004

MS-SC-2

Suitcase for SATO1004

MS-A-B747500

Battery for STO1004

/SATO1004 / TO series

STO-BA-A750

Battery for STO1000C/E

/STO2000C series