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PINTECH

PINTECH N Series Oscilloscope Differential Probe

General

Thank you for purchasing PINTECH oscilloscope differential probe, we will serve you wholeheartedly!
Please read this user manual carefully before use and pay attention to safety measures.

Symbol

- Please read this user manual carefully before use.
- If haven’t follow the signs or haven’t read the user manual before use,may result in personal injury or damage to the equipment and device.
- Pay attention to the risk of electric shock and pay attention to the highest input voltage.
- Do not use in a humid environment or where there is a risk of explosiveness.
- Before connecting the probe, make sure the circuit under test is turned off.
- At the end of the measurement, turn off the circuit under test and then turn off the probe switch.
- Before use,if the differential probe is damaged, please stop using it.
- Please use PINTECH supply adaptor.

Introduction

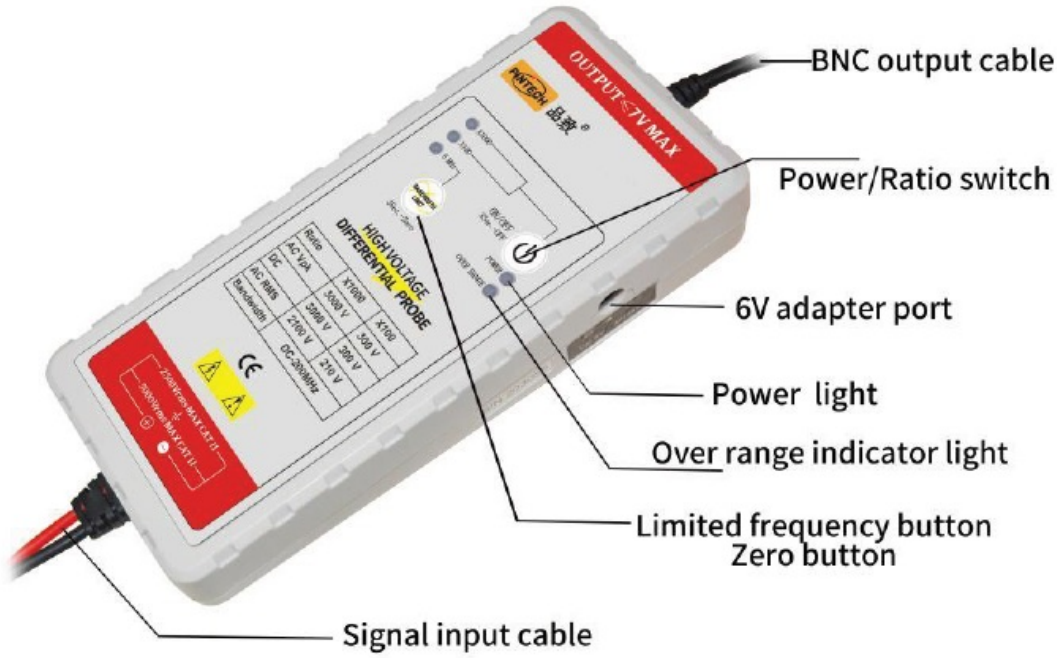
Differential probe provides a safety means for measuring differential voltage to all models of oscilloscopes.It can convert the high differential voltage into a low

voltage(<7V)and display on the oscilloscope.Its bandwidth is up to 200MHz,which is ideal for big power testing,development and maintain.
The Differential probe is designed to operate with the 1MΩ impedance oscilloscopes. When combine with the 50Ω load , the attenuation will be 2 times.
It can be widely used in the research and development, debugging or maintenance of switching power supplies, frequency converters, electronic ballasts, frequency conversion appliances and other electrical power devices.

Specification

Model	N2008Apro	N2015Apro	N2040Apro	N2060Apro
Bandwidth(-3dB)	DC-200MHz	DC-200MHz	DC-200MHz	DC-200MHz
Attenuation ratio	1:1000/100			
Rise Time	1.75ns	1.75ns	1.75ns	1.75ns
Accuracy	±1%			
Input voltage Vp-p	1000V@1/1000 100V@1/100	2000V@1/1000 200V@1/100	4000V@1/1000 400V@1/100	6000V@1/1000 600V@1/100
Input voltage	500V DC	1000V DC	2000V DC	3000V DC
Input voltage	350V rms	700V rms	1400V rms	2100V rms
Bandwidth Limited 5MHz	Switchable: Full/5MHz			

Input resistance	18MΩ/1pF Between inputs 9MΩ/2pF Each input to ground
Output voltage	<7V
Oscilloscope input impedance	1MΩ
CMRR(typical)	60Hz:>80dB 100kHz:>50dB
Power	6V DC



Power/ratio switch:

Press to start up; Hold down three seconds to indicate shutdown;

Press the power button briefly, and the power light lighting, continue to Press the power button, the switching ratio transition.

Limited frequency / zero button:

Short press Limited frequency button, 5MHz light on green; If overload, over range

indicator light on red; Press and hold until the light blinks.

Note:

If the charging voltage or battery is insufficient, the power indicator light will blink slowly.

Can be powered by batteries or a 6V adapter, adapter is standard.

Mechanical Specifications

Item	Specifications
Test cable length	30cm/60cm
BNC output cable	90cm
Probe hook BP-368N	122*38*14.5mm
Dimension	187*83*41mm
Weight	412g

Operating environment and conditions

	Reference	Use	Storage
Temperature	+20℃…+30℃	0℃….+50℃	-30℃….+70℃
Humidity	≤70%RH	20%…75%RH	10%…90%RH

1. Dual insulation
    - Installation category Ⅲ
    - Degree of Pollution 2
    - Related voltage or max line-earth 5000V RMS Max.

Operating instruction

- Connect the output BNC interface of the differential probe to the oscilloscope.
- Adjust the vertical switch on the oscilloscope if necessary.
- Adjust the attenuation rate and vertical switch on the oscilloscope to a consistent

position.

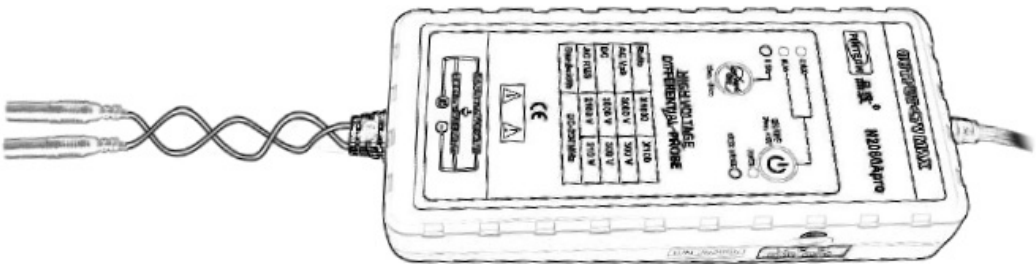
- The measured voltage value should be estimated before the test, if the voltage range is exceeded, the probe may be damaged.
- Set the attenuation ratio of the oscilloscope according to the ratio selected by the probe.
- The probe hook is connected to the object to be measured and start measuring.
- After the test is completed, turn off the circuit under test first, then turn off the probe switch, disconnect the probe hook from the tested circuit, and unplug the BNC interface from the oscilloscope.

Attention)

- The power must be turned on.
- The actual vertical bias is equal to the attenuation multiplied by the vertical bias selected on the oscilloscope, which is twice as high as the 50Ω load used.
- When connecting the differential probe BNC output cable to an oscilloscope or other device, ensure that the BNC terminal is securely grounded.

Using precautions

The input cable should be wound as much as possible during the measurement, which can better eliminate the lead inductance and external noise, and improve the high-frequency response and anti-interference ability.Like this:



Better don’t lengthen the input cable, otherwise will get more noise.

Accessories

6V Adapter
W&T-AD1806A060030K
(6V/0.3A)

Probe Hook
BP-368N
(1000V/3A)

Service

Maintenance

For maintenance,only use specified spare parts.The manufacturer can not be held responsible for any accident arising following a repair made other than its after sales service or approved repairs.

Cleaning

This probe does not require any particular cleaning.If necessary,clean the case with a cloth slightly moistened with the soapy water.

Warranty

Unless notified,our instruments are guaranteed against any manufacturing defect or material defect. They do not bear the specification known as the safety specification. Our guarantee,which may not under any circumstances exceed the amount of the invoiced price,goes on further than the repair of our faulty equipment,carriage paid to our workshops.

Repair

Maintenance,repairs under or out of guarantee.Please return the product to the manufacturer.

Model	-3dB) Bandwidth	Input Impedance	Attenuation Ratio	Accuracy	(ACp-p)
N1000A	DC-50MHz	8MΩ//0.59pF	1:1000/100	±1%	1500V@1/1000 150V@1/100
N1015B*	DC-100MHz	8MΩ//0.59pF	1:500/1:50	±1%	1500V@1/500 150V@1/50
N1008A	DC-50MHz	4MΩ//1.25pF	1:100/10	±1%	800V@1/100 80V@1/10
N1008B	DC-100MHz	4MΩ//1.25pF	1:100/10	±1%	800V@1/100 80V@1/10
N1015A	DC-100MHz	8MΩ//0.59pF	1:1000/100	±1%	1500V@1/1000 150V@1/100
N1030A	DC-50MHz	8MΩ//0.59pF	1:1000/100	±1%	3000V@1/1000 300V@1/100

N1030B	DC-100MHz	8MΩ//0.59pF	1:1000/100	±1%	3000V@1/1000 300V@1/100
N1070A*	DC-50MHz	20MΩ//0.5pF	1:1000/100	±1%	7000V@1/1000 700V@1/100
N1070APro*	DC-50MHz	20MΩ//0.5pF	1:1000/100	±0.5% DC-50Hz~1kHz	7000V@1/1000 700V@1/100
N1070B*	DC-100MHz	20MΩ//0.5pF	1:1000/100	±1%	7000V@1/1000 700V@1/100
N1100A*	DC-100MHz	20MΩ//0.5pF	1:1000/100	±1%	10kV@1/1000 1kV@1/100
N1140A*	DC-100MHz	20MΩ//0.5pF	1:1000/100	±1%	14kV@1/1000 1.4kV@1/100

N1140Apro*	DC-100MHz	20MΩ//0.5pF	1:1000/100	±0.5% (DC-50Hz ~1kHz)	14kV@1/1000 1.4kV@1/100
N2008Apro*	DC-200MHz	18MΩ//1pF	1:1000/100	±1%	1000V@1/1000 100V@1/100
N2015Apro*	DC-200MHz	18MΩ//1pF	1:1000/100	±1%	2000V@1/1000 200V@1/100
N2040Apro*	DC-200MHz	18MΩ//1pF	1:1000/100	±1%	4000V@1/1000 400V@1/100
N2060Apro*	DC-200MHz	18MΩ//1pF	1:1000/100	±1%	6000V@1/1000 600V@1/100

Documents / Resources

	PINTECH N Series Oscilloscope Differential Probe [pdf] Instruction Manual N2008Apro, N2015Apro, N2040Apro, N2060Apro, N Series Oscilloscope Differential Probe, N Series, Oscilloscope Differential Probe, Differential Probe, Probe

References

- User Manual

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Differential Probe, N Series, N Series Oscilloscope Differential Probe, N2008Apro, N2015Apro, N2040Apro, N2060Apro, Oscilloscope Differential Probe, PINTECH, Probe

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