

⊛ When the telephone line is connected, the indicator light of the telephone line does not light up.

⊛ When the telephone line is short-circuited-- the telephone line indicator light is always on.

5. POE switch test function

⊛ The RJ45 of the receiver is connected to the POE switch with a normal network cable, and the power supply connection of the POE switch can be tested.

⊛ The D1D2 or D3D6 light is on, indicating that the power supply mode of this POE switch is the terminal jumper method (12/36 core power supply).

⊛ The internal D4D5 or D7D8 light is on, indicating that the power supply mode of this POE switch is the intermediate jumper method(45/78 core power supply).

⊛ The D1D2 or D3D6+D4D5 or D7D8 light is on, indicating that this POE switch provides 8-core power supply.

Note: The pin line that lights up in the above description is positive.

6. Headphone function

⊛ When the receiver is tested in a noisy environment, you can wear headphones for operation to avoid external interference.

7. LED lighting function

⊛ When the receiver is turned on, press the "LED" switch button to turn on the LED lighting, then release it to turn off the LED lighting.

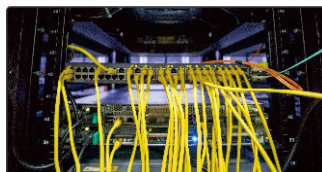
8. Product application field

⊛ Use object

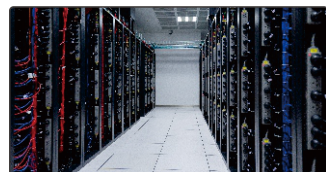
Telecommunications bureau/Internet cafes/telecom engineering companies, network engineering companies/power units and other weak current projects, line maintenance and other departments that require metal lines.

⊛ Product application field

Telecommunications network line engineering and routine maintenance work; computer network line engineering; other metal wire line engineering and maintenance work.



Integrated wiring network engineering



Network communication maintenance

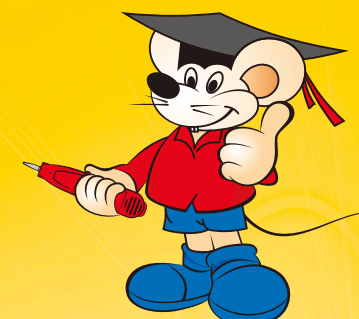
9. Product packing list

Transmitter	1	Alligator clip adapter cable	1
Receiver	1	RJ45 adapter line	1
Color box	1	RJ11 adapter line	1
Headset	1	Instructions for use	1
Tool bag	1		

Note: Please take the physical objects received.

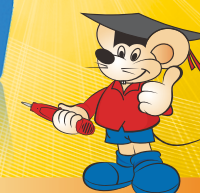
10. Product Specifications

Technical parameter description		
Product model	NF-810	
Power specification	9V laminated battery	
Applicable network cable	CAT5 CAT6 / Telephone cable	
Interface withstand voltage	60V	
Transmitter	Wiremap interface	RJ45
	Wiremap status light	√
	Cross circuit, Result	9 line sequence LED green lights
	Wire sequence and fault test	√
	Wire shielded / unshielded	√
	Short circuit prompt	√
	Switch to line	Switch to line RJ45 main interface + directly connected to the switch
	Short circuit prompt	√
	Applicable cable	Network cable, Telephone line
	Scanning function	Scanning interface
Signal transmission format		Dual tone pulse
Signal transmission distance		≤1km
Test interface		RJ11
Short circuit / channel test		√
Short circuit status indicator		√
Telephone line polarity state test		√
Maximum working current		<70mA
Size		201*45*27 (mm)
Receiver		Scanning Receiving Function
	Sensitivity adjustment	√
	Signal strength reminder	√
	Headphone function	√
	Tracking working current	≤40mA
	POE switch test	√
	Wiremap function	√
	LED lighting	√
	Size	125*28*45.3(mm)



Your excellent helper in cable test!

NETWORK CABLE TESTER User Manual





Please read and understand the safety precautions before using or servicing this equipment.

- ⚠ The main test terminal and receiving terminal of this equipment use 9V battery for power supply.
- ⚠ Do not place this equipment in dusty, humid and high temperature (above 40°C) places.
- ⚠ Be sure to use batteries that meet the specifications, otherwise the equipment may be damaged.
- ⚠ Do not disassemble the equipment casually, and ask professionals for repairs and maintenance.
- ⚠ When the device is not used for a long time, please take out the batteries in the test terminal and the receiving terminal to prevent battery fluid from leaking in a long time.
- ⚠ Do not use this equipment to detect live power lines (such as 220V power supply lines), otherwise it will damage the equipment and involve personal safety.
- ⚠ Do not carry out related operations on communication lines during thunderstorms to prevent lightning strikes and affect personal safety.
- ⚠ It is strictly forbidden to connect DC power above 60V and any AC power, otherwise the equipment will be burnt out.

Product interface and components

Test the line when connected to the Ethernet switch/router/PC terminal



1. Switch the machine on and off

Transmitter

In the shutdown state, turn the knob switch away from the "OFF", and the startup is successful.

In the power-on state, turn the rotary switch to the "OFF", and the power-off is successful.

Receiver

In the shutdown state, adjust the receiver knob switch to a beep, and the power indicator light is always on. It is powered on.

In the power-on state, turn the rotary switch to the "OFF", and you will hear a "da" sound, and the power indicator will go out, it has been turned off.

2. Cable scanning function

Rotate the transmitter knob switch to the "SCAN", scan indicator is always on, indicating that the cable scanning function has been entered. After selecting the function, connect one end of the network cable/telephone line to be tested to the RJ45/RJ11 port of the transmitter.

Turn on the receiver knob switch, you can adjust the receiver knob switch to the maximum sensitivity, use the receiver knob switch to approach the cable, when the receiver receives a signal, the receiver emits a "didi" sound, the stronger the signal, the yellow-green signal The brighter the indicator light flashes, you can quickly locate the approximate position of the cable in this way.

After determining the approximate position of the cable, appropriately reduce the receiver's signal sensitivity to accurately locate the target line.

3. Wiremap function

Rotate the transmitter knob switch to the "Wiremap", wiremap indicator light is always on, indicating that it has been entered.

The wiremap function is mainly used to detect the wire sequence, short circuit, open circuit, and cross of the network cable, and display the test results in the form of wire sequence lights. Insert one end of the network cable to be tested into the RJ45 interface of the transmitter, and the other end into the RJ45 interface of the receiver, and judge the cable condition by the light of the line sequence light.

The specific demonstration is as follows:

3.1 Channel:

The line lights of the transmitter and receiver will flash green one by one.

Transmitter: 1-2-3-4-5-6-7-8

Receiver: 1-2-3-4-5-6-7-8

3.2 Short circuit:

Take the short circuit of 2 and 5 as an example.

Transmitter: 1-2-3-4-5-6-7-8

Receiver: 1-2-3-4-5-6-7-8

Transmitter: 1-2-3-4-5-6-7-8

Receiver: 1-2-3-4-5-6-7-8

3.3 Open circuit:

Take 2 open circuit as an example, when the line sequence light turns on to 2, the transmitter and receiver are not on.

Transmitter: 1-X-3-4-5-6-7-8

Receiver: 1-X-3-4-5-6-7-8

3.4 Closed circuit:

Take the cross of 2 and 5 as an example, when the line sequence light turns on to 2, the receiver 5 lights up.

Transmitter: 1-2-3-4-5-6-7-8

Receiver: 1-5-3-4-2-6-7-8

4. Telephone line status detection function

Connect the transmitter to the phone using the RJ11 adapter cable, and at the same time turn the transmitter knob switch to the "telephone line", the telephone line indicator lights up, and the results are as follows:

4.1 Telephone line polarity

- ⚠ When the green light is on, the phone line 3P is positive and 4P is negative.
- ⚠ When the red light is on, the phone line 3P is negative and 4P is positive.

4.2 Telephone line status

- ⚠ The indicator light is always on—The phone is idle.
- ⚠ When the red and green lights flash alternately—the phone rings.
- ⚠ The indicator light is dimmed—off-hook (the phone is in a conversation)

4.2 Telephone line on-off detection

Connect the transmitter to the telephone line with the alligator clip adapter cable, and at the same time turn the transmitter knob switch to the "on-off", the test results are as follows:

设计	品名	样式	印刷要求
CZG	NF-810说明书折页英文V3-20230614	5折页	彩色
日期	品号	页码	
2023.06.14		10P	
样品	尺寸	材质	
	525×150mm	128g铜版纸	
变更记录	V3较V2版本更新了参数		