NOYAFA®

Your excellent helper in cable test!

NF-802

Intelligent Network Cable Tester
User Manual

1.Overview
Intelligent network cable tester

NF-802 is an intelligent network cable tester, uses advanced digital demodulation to realize anti-interference and no noise tracing cables, functions of wiremap, cable tracing, crimping, and port flash. It can test the polarity recognition of the telephone line, standby, off-hook, ringing, and LED indicator in different states. A tool for installation and mainte-nance of integrated wiring and weak current systems.

Lamp
Probe
Battery status indicator
Earphone
Sensitivity switch
Line sequence indicator
SCAN button
NCV button
Lamp button
Type-C charging interface
RJ45 interface
Receiver knob

RJ11 interface
RJ45 interface
Telephone line indicator
Switch button/ Telephone line
Port flash indicator
Battery status indicator
Line sequence indicator
Wiremap / Scan button
QC for crimping button
Port Flash button
QC interface
QC for crimping LED indicator
Type-C charging interface

Emitter
Receiver

ORIGINAL AUTHENTIC

VER:V3

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2.Using method

2.1. Turn on/off:

Emitter:
1) 1.Push the switch to "ON" to turn on ,Defaulting to to the dual mode of scan/wiremap ,Now the LED indicator of the scan button is on.
2) Push the switch to the "Off" to shut down.

Receiver:
1)Shutdown state, turn the receiver knob clockwise , "click" sound to indicate power on.
2)Power-on state, turn the receiver knob counterclockwise, "click" sound to indicate turn it off.

Receiver knob

2.2. Wiremap:

The boot defaults to "SCAN/Wiremap" dual mode, the SCAN button indicator is always on, short press the SCAN button to switch to the QC mode, SCAN button indicator flashes, short press again to enter the SCAN/QC dual mode .

Wiremap function is mainly used to detect the line sequence, short circuit, open circuit, and cross of network cables, and The results display by the sequence LED. Insert the end of lan cable into RJ45 interface of the emitter,and insert the other end into RJ45 interface of the receiver,then judge the cable condition by the LEDS sequence light, as follows:

1) Pass : The LED lights of the transmitter and receiver will flash green one by one.
  E:1-2-3-4-5-6-7-8

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

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2) Short : If two or more cables are short circuited, the corresponding lights won't be on of the receiver while the emitter remains normal.
  E:1-2-3-4-5-6-7-8   E:1-2-3-4-5-6-7-8

  R:1-X-3-4-X-6-7-8   R:1-X-3-4-X-6-7-8

3) Open: If PIn2 is open,LED2 of the emitter and the receiver will not light.
  E:1-x-3-4-5-6-7-8

  R:1-x-3-4-5-6-7-8

4) Cross : If Pin2&5 is cross,when LED2 of the emitter lights,LED5 of the receiver light at the same
  E:1-2-3-4-5-6-7-8

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

2.3. Cable tracing:

1) Turn on the receiver to enter the SCAN/ Wiremap dual mode, SCAN button indicator light is always on.

2) After selecting the mode, connect the network cable/telephone cable to be tested to the RJ45/RJ11 port of the emitter.

3) Turn the receiver knob clockwise to turn on, adjust the sensitivity of the received signal to the maximum, use the receiver probe to approach the cable, when the receiver receives the signal, the receiver emits a "Beep beep" sound, and the receiver line sequence light turns red indicating the signal strength. The stronger the received signal, the louder the sound and the more the lights are on. so the approximate position of the cable can be quickly located.

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4) After determining the approximate position of the cable, appropri - ately reduce the receiver's signal sensitivity to accurately locate the target line.

Note: The line sequence light of the receiver is green to indicate the wiremap result, and red to indicate the strength of the received signal.

2.4. QC for crimping crystal:

Short press the transmitter "QC" button to enter the QC test mode. The QC button indicator light is on. Connect the network cable/tele - phone cable to the crimping port of the emitter, and the crimping QC LED will be on. The result is as follows:

1) QC pass:LED1~LED8 of the emitter are all light.
 E:1-2-3-4-5-6-7-8

2) QC is not pass: the crimping light of the emitter is shining as follows.
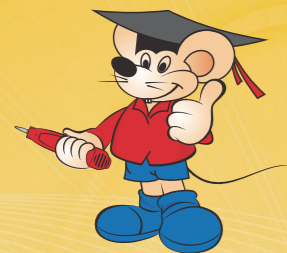 E:1-x-3-4-5-6-7-8

Telephone line:
 QC pass for 6P6C E:x-2-3-4-5-6-7-x
 QC pass for 6P4C E:x-x-3-4-5-6-x-x
 QC pass for 6P2C E:x-x-x-4-5-x-x-x

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2.5. Port flash:

Short press the "FLASH" button, the port flash button indicator is on, and the port flash indicator light is on. Insert the network cable into the RJ45 interface of the emitter, and the other end is connect - ed to the switch/router. The indicator flash every 3-4 seconds and transmit the flashing signal to the switch/router. The corresponding interface indicator of the switch/router flash at a frequency of 3-4 seconds simultaneously, and the target line is judged.

Note: When PoE is connected, The wiremap sequence LED will light to show which cores supply power.

2.6. Telephone line status detection:

Push the switch to the "telephone line" position, the telephone line is connected to the emitter RJ11 interface, the results are as follows:

1) Polarity detection of telephone line.

When the green light is on, the telephone line 3P is positive pole and 4P is negative pole
When the red light is on, the telephone line 3P is negative pole and 4P is positive pole

2) Telephone status detection.

Indicator light is on ---- The phone is idle
Green and red lights flash alternately ---- the telephone is ringing
Indicator light dims ---- off －hook(the telephone is in a conversation)

Pay attention :Indicator light color based on Polarity detection of telephone line.

2.7. NCV:

Short press the receiver "NCV" button to enter the NCV test mode, the NCV button indicator light is on,when the receiver probe is close to the cable or socket and other equipment. If there is more than 40V AC, the receiver will emit a "di di di" sound.

2.8. Lighting:

Short press the receiver "light" button to turn on the receiver LED flashlight, short press again to turn it off.

2.9. Headphones:

Headphone function: When testing in a noisy environment, wear headphones for operation to avoid external interference.

2.10. Low battery prompt and charging:

1) Low battery prompt function: When the battery power is lower than the power required for the normal operation of the instrument, Power indicator flashes.

2) TYPE-C USB charging function status indication: when charging, the red indicator light is on, When the battery is full, the red indicator light is off.

3.Specifications

Types	Function	Instruction
Emitter	Suitable for network cable	CAT5 CAT6
	Anti-jamming scanning	√
	Low battery prompt	Below 3.3V+0.1V power indicator flashes
	Scrimping response speed	<1s
	Power supply battery	3.7V, 1400Ah Lithium polymer battery
	Stand-by current	Wiremap / SCAN / QC< 25mA，Flash< 150mA
	Interface Type	RJ11、RJ45
	Dimension	60x135x30mm
Receiver	Suitable for network cable	CAT5 CAT6
	Sensitivity adjustment	√
	NCV	√
	lighting	√
	Headphone jack	√
	Wiremap	√
	Power supply battery	3.7V, 1400Ah Lithium polymer battery
	Stand-by current	≤35mA
	Maximum working current	≤280mA
	Dimension	50x198x30mm

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

Safety regulations :
● Do not expose this product to direct sunlight for a long time
● Do not place this product in dusty, humid and high temperature (above 40°C) places
● Please do not disassemble this product casually, please ask professionals for repairs and maintenance
● The emitter of this equipment has an automatic shutdown function, and the automatic shutdown time can be set according to the user's needs (the receiver does not have an automatic shutdown function).
● This equipment cannot be connected to live lines that exceed the protection voltage (such as 220V power supply lines).
● Do not carry out related operations on communication lines during thunderstorms to prevent lightning strikes and affect personal safety.

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设 计	品名		样式	印刷要求
CZG	NF-802说明书折页英文-V3 20230907		5折页	彩色
日期	品号		页码	
2023.09.07			无	
样品	尺寸		材质	
	150x525mm		128g铜版纸	
变更记录	V2.2更改了产品图片			
	V3较V2.2版本，更新了对线短路的测试结果			