

## MULTI-FUNCTION NETWORK CABLE TESTER

### USER MANUAL

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#### Notes :

- This tester uses polymer lithium battery. If not used for a long time, please charge it at regular intervals.
- Do not connect to circuits with voltages exceeding 100V.; otherwise, the instrument will be damaged.
- Do not store the device in a high-temperature and humid environment.
- Do not forcefully plug or unplug the port to prevent damage to it.
- Do not use the tester during thunderstorms to prevent lightning strikes.
- Do not disassemble the tester by yourself. Maintenance and repair matters should be carried out by professionals.

#### FOREWORD :

Welcome to purchase Multi-functional network cable tester from AMPCOM!

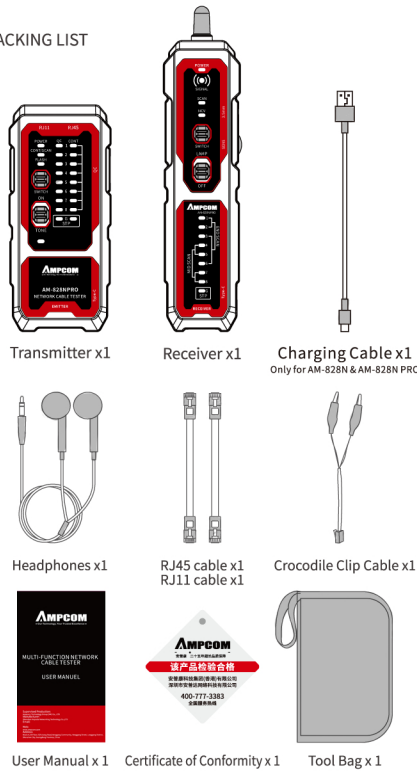
Model AM-818 & AM-818N are powered by 2\* AA batteries.  
Model AM-828N & AM-828N PRO powered by Type-C lithium battery.

If you encounter any problems during use, please contact our online customer service.  
Please read the manual carefully before use in order to better understand the usage method of the product.

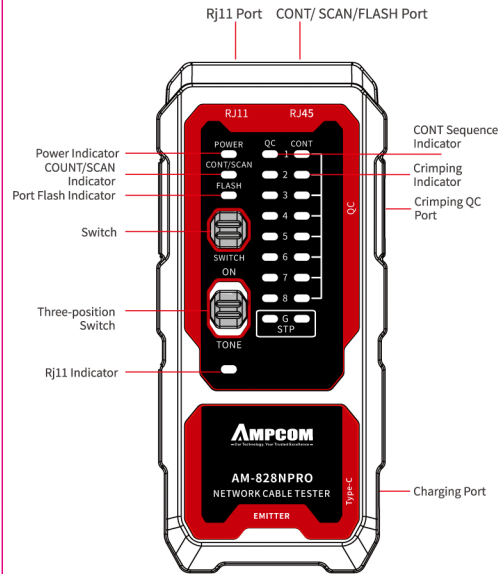
For more service support, please scan the QR code to visit our official website:  
[www.ampcom.com](http://www.ampcom.com)



#### PACKING LIST

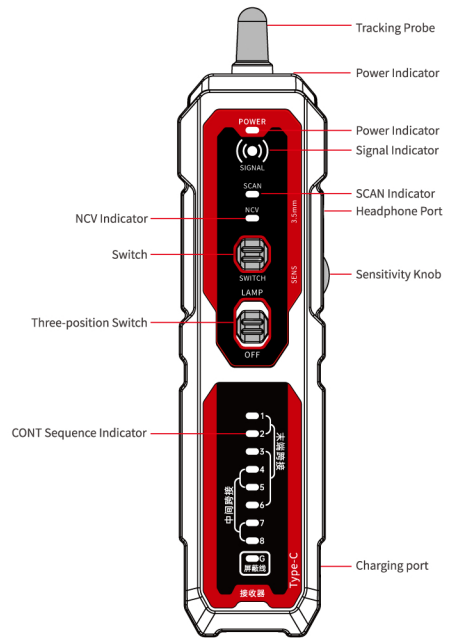


#### Component Description - Transmitter



·The schematic diagram model is AM-828N PRO. For other models, the actual items received shall prevail. For all functions, please refer to the manual.

#### Component Description - Receiver



·The schematic diagram model is AM-828N PRO. For other models, the actual items received shall prevail. For all functions, please refer to the manual.

#### Function Description

##### 1. Power on and off

###### Transmitter

Switch the three-position toggle switch to the "POWER" position. The transmitter power indicator light will light up, and the tester will default to the "CONT/ SCAN/FLASH" mode. The "CONT/ SCAN" indicator light will flash, and the "FLASH" indicator light will light up. That means startup is successful.

###### Receiver

Switch the three-position toggle switch to the "POWER" position. The receiver power indicator light will light up, and the tester will default to entering the cable tracing function. When the "SCAN" indicator light on, That means startup is successful.



##### 2. CONT sequence function

After turn on the transmitter, it defaults to the "CONT/ SCAN/FLASH" mode. The "CONT/ SCAN" indicator light flashes. Press "SWITCH" briefly to enter the "CONT" mode, and "CONT/ SCAN" indicator light remains on constantly. CONT sequence function is mainly used to detect the line sequence path, short, open, cross and other conditions of Network cables, and will display the results in the form of a line sequence light on. Insert both ends of the network cable to be tested into the "CONT/ SCAN/FLASH" interface of the transmitter and the RJ45 interface of the receiver respectively. Determine the condition of the cable through the pair indicator light, as follows:

2.1 PASS: The corresponding line lights of the transmitter and receiver flashgreen one by one, and the G light of the shielded line flashes.

Transmitter: 1-2-3-4-5-6-7-8  
Receiver: 1-2-3-4-5-6-7-8  
Unshielded Wire  
Shielded Wire

2.2 SHORT : eg short of line sequence for No.2 and 5, when the line sequence light is on to 2 and 5, receiver's 2 and 5 light up simultaneously, but the brightness dims.

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

2.3 OPEN: Line 2 as an example, when the line sequence light is on to No.2, Neither the transmitter nor the receiver lights up.

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

##### 2.5 Check CONT sequence with switch

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

##### 3. Cable Tracking Function

###### 3.1 Tracing for Network /Telephone lines

- 1) Turn on the transmitter and the receiver.
- 2) Insert the network cable to be tested into the "CONT/ SCAN/FLASH" interface, and insert the Telephone line to RJ11 port of transmitter.
- 3) Rotate the knob of the receiver upwards to adjust the signal sensitivity switch to the maximum. Bring the probe of the receiver close to the cable. When the receiver receives the signal, it will make a "ding-ding-ding" sound and the signal indicator light will turn blue. The stronger the received signal, the brighter the blue light, indicating that the target line position has been located.
- 4) After determining the approximate position of the cable, adjust the signal sensitivity of the receiver to precisely locate the position of the target line.

###### 3.2 Tracing for power cables

- When locating power cables, it is necessary to ensure that the cables are not live to avoid burning out the products.
- 2) Insert the connector with the alligator clip test lead into the RJ11 interface of the transmitter, and use any alligator clip to clamp the metal wire of the power cable to be tested.
  - 3) Turn on the transmitter and the receiver.
  - 4) Rotate the knob of the receiver upwards to adjust the signal sensitivity switch to the maximum. Bring the probe of the receiver close to the cable. When the receiver receives the signal, it will make a "ding-ding-ding" sound and the signal indicator light will turn blue. The stronger the received signal, the brighter the blue light, indicating that the target line position has been located.
  - 5) After determining the approximate orientation of the cable, appropriately

##### 3. Cable Tracking Function

Insert one end of the network cable into the POE switch interface and the other end into the RJ45 of the tester receiver. The result is as below:

Light up 12/36,End span  
Light up 45/78, Middle span  
Lights up 12/36 and 45/78, means 8 cores cable powered together

##### 5.Crimping test (AM-828NPRO only)

The automatic testing method is adopted to simultaneously test whether the shielding layer and the connector are properly connected. After turning on the machine, insert the network cable to be tested into the crimping interface of the transmitter and observe the crimping indicator light. The results as follow:

###### 5.1 The connector crimp is connected.

Unshielded Wire Crimping QC Indicator: 1-2-3-4-5-6-7-8

Shielded WireCrimping QC Indicator: 1-2-3-4-5-6-7-8-G

###### 5.2 The connector crimping Line 5 is disconnected.

Unshielded WireCrimping QC Indicator: 1-2-3-4-X-6-7-8

Shielded WireCrimping QC Indicator: 1-2-3-4-X-6-7-8-G

##### 6.Port flash detection (AM-828N PRO only)

After startup, it defaults to "CONT/SCAN/FLASH" mode. Long press "SWITCH" to turn off the port flash function.

- 1) Turn on the transmitter.
- 2) Insert the network cable to be tested into the transmitter "CONT/ SCAN/FLASH" port.
- 3) Observe that the terminal flashing indicator light flashes at a frequency of about 3 seconds, and the corresponding interface indicator light of the switch flashes at the same frequency to determine the target line.

##### 7.Polarity detection

Insert the connector with alligator clip wire into the transmitter 's RJ11 port and clamp the battery to be tested with two alligator clips. The result is as follows:  
When the blue light is on, the red clip is positive and the black clip is negative.  
When the red light is on, the red clip is negative and the black clip is positive.

##### 8.Telephone status detection

The indicator light remains on constantly. ---- Telephone Idle  
The indicator light flashes alternately in blue and red -Telephone Ring  
The indicator light dims -- Take off the machine (In a phone call)

##### 9.NCV---Voltage detector (AM-818 does not support)

Turned on the Receiver, it defaults to "SCAN" mode. Short press "SWITCH"

button enter to the " NCV " mode. When a live circuit cable is detected, a "beep beep" sound will be emitted.

##### 10.Low battery prompt and charging

Low battery warning function: When the battery power is low, the power indicator light will flash,Please charge it in time.  
Charging status indication: When charging for the tester, the power indicator light flashes. When the battery is fully charged, the power indicator light remains on constantly.

##### 11. Illumination

Push the toggle switch of the receiver to the lamp position to activate the lighting function.

##### 12. Automatic shutdown

Our tester is equipped with an automatic shutdown function. It will automatically shut down after 30 minutes of inactivity to prevent power depletion due to forgetting to shut down.

##### AFTER-SALE INSTRUCTION

- 1.If any quality issues occur with this product under normal use, it will be covered by free repair within one year and limited repair within three years (during the repair period, the cost of spare parts will be charged).
2. The warranty time start from the purchase date.
3. Please show your Conformity Certificate and invoice when having the repair done. (If there is no purchase invoice or Conformity Certificate , Subject to the production date.)
4. During the warranty period, all faults caused by the product itself are covered can be repaired.
5. The warranty service does not covered product shell, RJ45 interface, accessories, user manual, packaging.
6. Maintenance cost will be charged depending on that circumstances if the warranty time is exceeded or the following situations occur:  
A. Those without valid purchase vouchers and warranty cards;  
B. Those who fail to follow the requirements of the manual or disassemble, repair or modify the product by themselves, resulting in damage to the product;  
C. The spare parts themselves suffer from wear and tear after use;  
D. Those who make incorrect connections, use power supplies with incorrect voltages, or cause damage to the copper plates of the battery due to long-term non-use;  
E. Those who use the broken products themselves and let the products soak in water;  
F. The situation where the product fails to work properly due to the user's failure to protect or maintain it properly;

#### PRODUCT PARAMETER

Model	818	818N	828N	828N PRO
Power supply	AA battery	AA battery	Li-lithium	Li-lithium
CONT	Automatic	Automatic	Automatic	Automatic
SCAN	Strong anti-electromagnetic interference ability			
Polarity test	YES	YES	YES	YES
Crimping test	NO	NO	NO	YES
Port flash	NO	NO	NO	YES
NCV	NO	ACS0/60Hz≥70V		
Telephone line test	YES	YES	YES	YES
Automatic shutdown	30mins later			
Lamp	YES	YES	YES	YES
Sensitivity adjustment	YES	YES	YES	YES
Headphone function	YES	YES	YES	YES
Low battery prompt	<1.4V±0.1V		<3.3V±0.1V	
Working environment	-10℃-45℃		10℃-45℃	
Interface withstand voltage	DC 100V		DC 100V	
Transmitter	Working current	<35mA		<56mA
	Usage duration	>7h		>16h
Receiver	Working current	<130mA		
	Usage duration	>6h		>7.5h
Charging time	/		3.5 hours	
Power supply	AA*2pcs		3.7V Li-lithium 1200mAh	
Product size	Transmitter: 135x61x30mm		Receiver: 194*46*30mm	