ERMENRICH NP25 Netgeeks Poe Tester User Manual

Contents

ERMENRICH NP25 Netgeeks Poe Tester

Product Information

Specifications:

- Brand: Ermenrich
- Model: NetGeeks NP25 PoE Tester
- Functions: Wire mapping, PoE testing, Power consumption testing, PD testing
- Components: Transmitter, remote unit, RJ11 patch cord, RJ45 patch cord, wire with alligator clips, DC cable, carry bag, user manual, warranty

Product Usage Instructions

Getting Started:

Before use, read the safety instructions and user manual. Keep away from children. Use the device as specified in the manual.

Wire Mapping:

This function checks cable wire connections. Connect one end of the cable to the RJ45 port on the transmitter and the other end to the remote unit's RJ45 port. Select CONT (Wire mapping) in the menu and press OK to test.

Possible outcomes: Normal, Short, Open, Cross, Cable disconnected.

PoE Test:

Identify PoE pins, PSE type, polarity, mode, and voltage. Connect the cable to the PoE port on the transmitter and PoE equipment. Select PoE in the menu and press OK to test.

Possible outcomes: Standard PSE, Non-standard PSE, Power-providing pins.

Power Consumption Test:

Determine power consumption by a PoE device. Connect both PSE and PD to the PoE ports on the transmitter. Select PoE in the menu.

Possible outcomes: Standard PSE, Non-standard PSE, Power-providing pins.

Powered Device (PD) Test:

Test voltage, current, and power consumed by DC appliances. Connect the power adapter to the DC input. Plug one end of the DC cable into the powered device and the other end into the DC output. Select POWER (PD test) in the menu and press OK to test.

FAQ

Q: What should I do if the device shows a short circuit formany faults in a cable?

A: When multiple faults are present, the device may display a short circuit. Check each connection carefully and retest to ensure accurate results.

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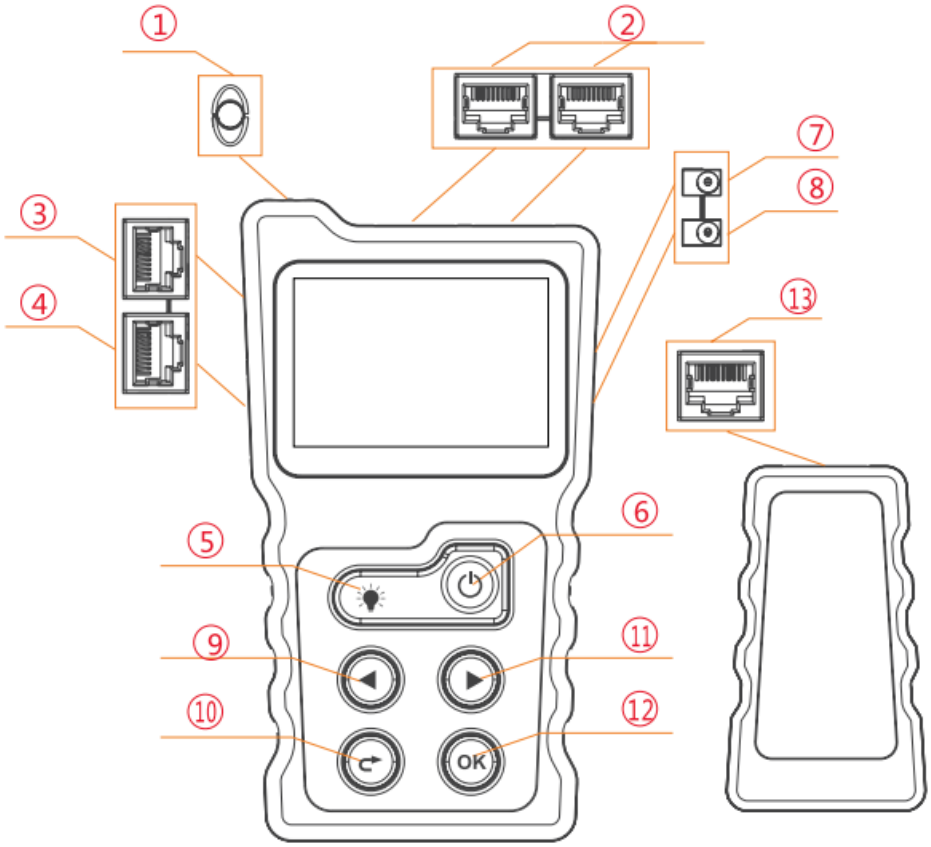
PRODUCT OVERVIEW



1. Flashlight
2. PoE port
3. Loopback test port
4. RJ45 port
5. Flashlight button
6. Power button
7. DC input
8. DC output
9. Left button
10. Right button
11. Back button
12. OK button
13. RJ45 port

Ermenrich NetGeeks NP25 PoE Tester

Please carefully read the safety instructions and the user manual before using this product. Keep away from children. Use the device only as specified in the user manual.

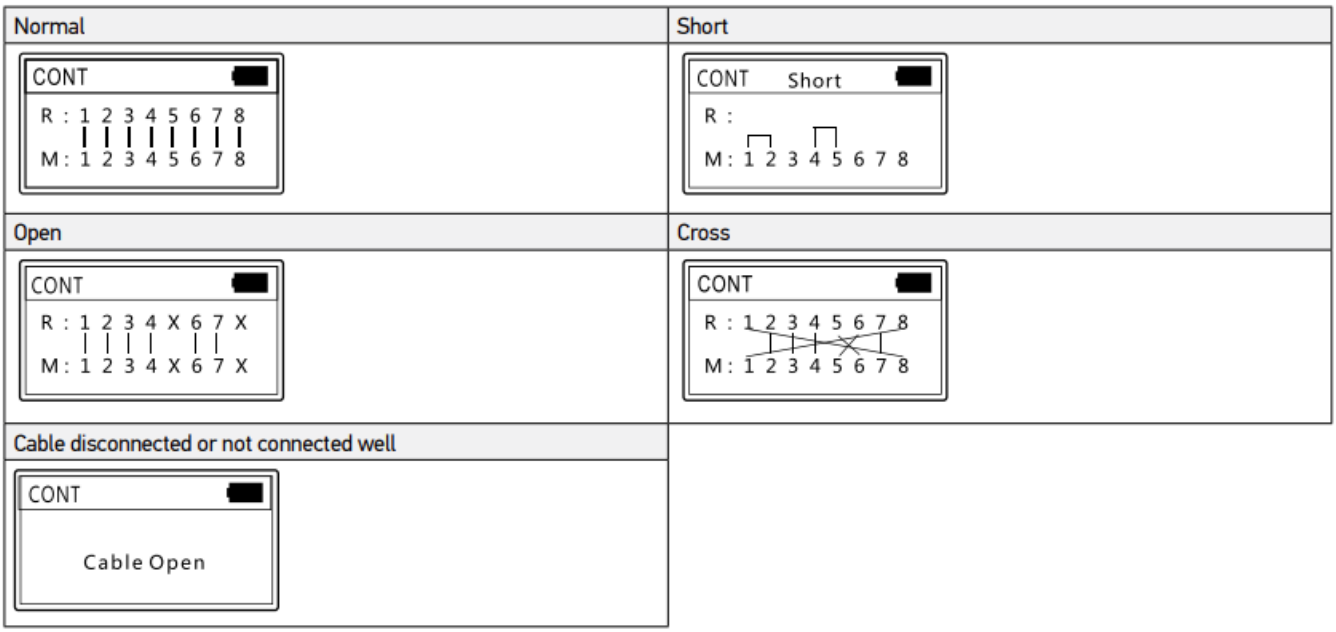
The kit includes a transmitter, remote unit, RJ11 patch cord, RJ45 patch cord, wire with alligator clips, DC cable, carry bag, user manual, and warranty.

Getting started

- Open the battery compartment cover and insert 3 AAA batteries. Close the cover.
- Press the power button (6) and hold it for 3 seconds to turn the device on or off.

Wire mapping

This function is used to check if the wires within the cable are connected correctly. To test the network cable, plug one end of the cable into the RJ45 port (4) on the transmitter and the other end into the RJ45 port (13) on the remote unit. Select CONT (Wire mapping) in the main menu, and then press the OK button (12) to test.
Possible outcomes are shown below:

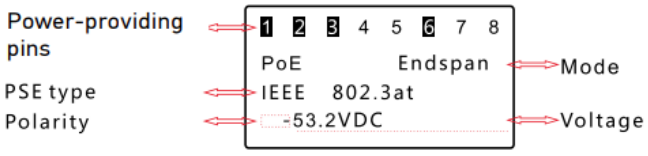


When there are many faults in the cable, the device only shows short circuit.

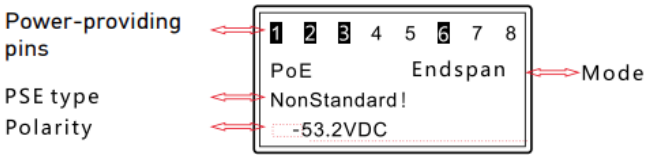
PoE test

This function is used to identify the pins that provide PoE, the PSE type (standard or non-standard), polarity, mode, and voltage. Insert one end of the cable or the RJ45 patch cord (included) into the PoE port (2) on the transmitter and the other end into the PoE equipment (such as network switch, router, etc). Select PoE in the main menu, and then press the OK button (12) to test.
Possible outcomes are shown below:

Standard PSE



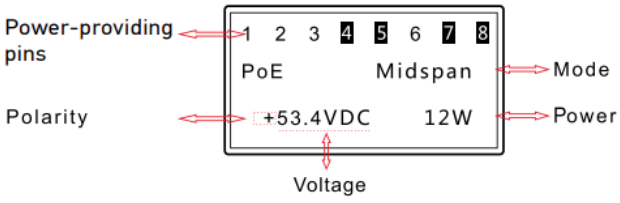
Non-standard PSE



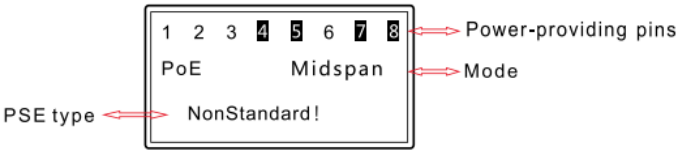
Power consumption test

This function is mainly used to define the power consumption by a PoE powered device. It also helps to identify the pins that provide PoE, the PSE type (standard or non-standard), polarity, mode, and voltage. Connect both PSE and PD to the two PoE ports (2) on the transmitter and select PoE in the main menu.

Standard PSE



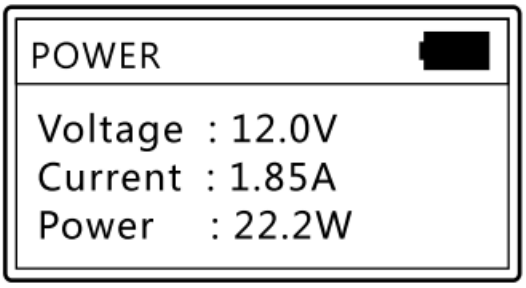
Non-standard PSE



Powered device (PD) test

This function is used to test the voltage, current, and power consumed by DC appliances. Connect the power adapter to the DC input (7). Then, plug one end of the DC cable (included) into the powered device and the other

end into the DC output (8). Select POWER (PD test) in the main menu, and then press the OK button (12) to test. Possible outcome is shown below:



Loop-back test
This function is used to check if the signal transmission between the network switch and the powered device is working properly. Plug one end of the cable or the RJ45 patch cord (included) into the loop-back test port (3) on the transmitter and the other end into the network switch. Select LOOP (Loop-back test) in the main menu. The device will send a signal to the network switch and wait for the response signal. If the LED on the network switch lights up and “Loop testing…” is continuously displayed on the screen, it means that the signal transmission is good. If the LED on the network switch does not light up, it means that there are problems in the communication channel.

Specifications

Testing cable types	STP/UTP (CAT5, CAT6)	
PoE test	Power source equipment (PSE) type test	standard (IEEE 802.3at/af) / non-standard
	Midspan/endspan identification	+
	DC voltage measurement range	5–60V
	Voltage polarity detection	+
	Power measurement range	0–18W
Powered device (PD) test	DC voltage measurement range	0–60V
	DC current measurement range	0–3A
	Power measurement range	0–180W
Wire mapping	+	
Loop-back test function	+	
Max. electric current	80mA	
Backlight	15s, 30s, 1min, continuous, off	
Auto-off	15min, 30min, 1h, OFF	
Operating temperature range	–10... +60°C / +14... 140°F	
Power supply	3pcs AAA alkaline batteries	

The manufacturer reserves the right to make changes to the product range and specifications without prior notice.

Care and maintenance

Do not use the device in a high voltage environment (e.g. 220V AC electric power supply). Do not use the device if it is not working properly. Protect the device from sudden impact and excessive mechanical force. Store the device in a dry cool place. Please note that the parameters of the power supply must comply with the technical characteristics of the device. Do not touch any bare conductor with your hand or skin. Do not try to disassemble the device on your own for any reason. For repairs and cleaning of any kind, please contact your local specialized service center. Only use accessories and spare parts for this device that comply with the technical specifications. Never attempt to operate a damaged device or a device with damaged electrical parts! If a part of the device or battery is swallowed, seek medical attention immediately.

Battery safety instructions
Always purchase the correct size and grade of battery most suitable for the intended use. Always replace the whole set of batteries at one time; taking care not to mix old and new ones, or batteries of different types. Clean the battery contacts and also those of the device prior to battery installation. Make sure the batteries are installed

correctly with regard to polarity (+ and –). Remove batteries from equipment that is not to be used for an extended period of time. Remove used batteries promptly. Never short-circuit batteries as this may lead to high temperatures, leakage, or explosion. Never heat batteries in order to revive them. Do not disassemble batteries. Remember to switch off devices after use. Keep batteries out of the reach of children, to avoid risk of ingestion, suffocation, or poisoning. Utilize used batteries as prescribed by your country's laws.

Levenhuk International Warranty
Levenhuk products, except for their accessories, carry a 5-year warranty against defects in materials and workmanship. All Levenhuk accessories are warranted to be free of defects in materials and workmanship for six months from the purchase date. The warranty entitles you to the free repair or replacement of the Levenhuk product in any country where a Levenhuk office is located if all the warranty conditions are met.
For further details, please visit: **levenhuk.com/warranty**
If warranty problems arise, or if you need assistance in using your product, contact the local Levenhuk branch.

Documents / Resources

	**ERMENRICH NP25 Netgeeks Poe Tester** [pdf] User Manual NP25 Netgeeks Poe Tester, NP25, Netgeeks Poe Tester, Poe Tester, Tester

References

- **Доживотна гаранция на Levenhuk – Официален уебсайт на Levenhuk в България**
- **Doživotní záruka společnosti Levenhuk – Oficiální webové stránky Levenhuk pro Českou republiku**
- **Levenhuk Lebenslange Garantie – Die offizielle Website von Levenhuk in Deutschland**
- **Garantía internacional de por vida Levenhuk – Web oficial de Levenhuk en España**
- **Levenhuk Lifetime Warranty – Levenhuk's official website in USA**
- **A Levenhuk élettartamra szóló szavatossága – A Levenhuk hivatalos magyarországi weboldala**
- **Levenhuk Limited Warranty – Levenhuk's official website in USA**
- **Поддержка - Гарантийное обслуживание Левенгук - Levenhuk Russia**
- **Gwarancja bezterminowa Levenhuk – Oficjalna witryna internetowa Levenhuk w Polsce**
- **Levenhuk's official website in USA**
- **User Manual**