Multifunctional Wire Tracker

User Manual

Safety Notices

Warning
In order to avoid any fire accident, electric shock or body hurt, please read this manual carefully.

Warning: it might cause electric shock, body hurt or dead accident if the device touches electric appliances, please use this product according to the manual.
a) Please read this manual carefully before using the product, wrong operation might result in malfunction or other accidents;
b) Do NOT use it if the product is damaged such as shell cracking, battery/body casing uncoupling;
c) Do NOT use it in case of electric surge, damp or lightning storm environment;
d) Do NOT use it to track those cables/wires with electric supply (such as 220V power supply);
e) Do NOT use it in those environments with combustible gas, heavy dust or vapor;
f) Please disconnect it with tracked wire before opening the battery casing;
g) For the sake of your safety, please note “safety first”: it might cause electric shock when the voltage is over 20V AC or 60V DC;
h) Appropriate personal protection is advised such as safety glasses, veil, insulating gloves/shoes/cushions;
I) Do NOT make yourself directly stand on ground when use with electricity, and please connect the grounding wire and zero line when use alligator clip test wire or jumper wire.

1. Overview
The meter handset multifunctional wire tracker is widely applied to network, telecom, safety security and electric fields, such as the tracking of netting twines, phone cables, coaxial cables and metallic cables; several ports are provided such as RJ11, RJ45, BNC; it's an essential testing tool for the onsite personnel of network, telecom, safety security and electric industry.

2. Features

Tracking: find the target among a number of wires/cables via RJ11, RJ45, BNC; its special function can make it work and find the target when the exchanger, router or computer is turned on;

Wire collating: collate the linear order and check disconnection, short circuit, wrong collating, reverse connection and cross talk; it's easy and visible to use instead of network tester;

Check the status of ringing, off-hook or idle of the phone, test TIP/RING line;

Test DC power level and anode/cathode;

Test wire impedance and connection condition;

The device is equipped with LED light that make it available in dark environment;

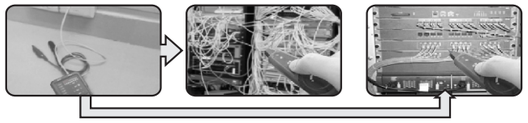
The device is equipped with earphone to be available in noisy environment;

The device is designed with under-voltage alert.

3. Operations
1) Tracking
It may search and find phone cables, netting twines, coaxial/metallic cables via RJ11, RJ45, BNC ports;

It's not allowed to test those wires/cables with electricity especially 22V power supply; but it may use when the exchanger, router, computer is turned on;

a) Rotate the rotary switch of the emitter to “TRACK”;

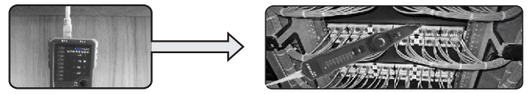


b) Connect one end of the tested cable to corresponding port (RJ11, RJ45, BNC), alligator clip is required to connect RJ11 port for metallic cable test;

c) It means the emitter starts to send audio signal to the tested cable when “TRACK” indicator turns green;
d) Turn on the receiver and press “TRACK” key on the receiver, the indicator on the top turns green, it means the receiver starts to receive the audio signal from the emitter, now you may check and find through the other end (wiring cabinet/box/hub/exchanger) of the tested cable, find the target via the sound volume, when the detector closes the line, the loudest is the target;
e) The sound volume may be adjusted via the volume knob on the receiver; when use the device in noisy environment, please use the earphone.

2) Wire Collating
collate the linear order and check disconnection, short circuit, wrong collating, reverse connection and cross talk;
It's not allowed to test those wires/cables with electricity especially 22V power supply; but it may use when the exchanger, router, computer is turned on;
a) Rotate the rotary switch of the emitter to “COLLATE”, the corresponding indicator turns green;
b) Insert one end of the tested cable to RJ45 port of the emitter;

and other end to RJ45 of the receiver;



c) Press “TEST” key on the emitter to start to test; there are 9 indicators (1, 2, 3, 4, 5, 6, 7, 8, G) respectively on the emitter and receiver, it means the cable works normally when it turns green, or you may judge which one is under wrong order, short circuit or broken.

3) Telephone Circuit Test (Only the emitter is required for this test.)

a) Check whether the circuit is normal or not:
Rotate the rotary switch of the emitter to “PHONE”;
Insert the phone line to RJ11, “PHONE” indicator turns on (red or green), it means the circuit is normal, or under malfunction.

b) Check the status of ringing/off-hook/idle:
Rotate the rotary switch of the emitter to “PHONE”;
Insert the phone line to RJ11, “PHONE” indicator turns on (red or green), it means the circuit is idle; the indicator (red or green) turns dark or turns off, it means the circuit is off-hook; the indicator (red or green) blinks, it means the circuit is ringing.

c) Check TIP/RING wire
Rotate the rotary switch of the emitter to “PHONE”;
Insert RJ11 terminal of the alligator clip to the emitter, red-back clips on the tested wire;
If “PHONE” indicator turns red, the red clip is TIP wire and the

is lower than the working voltage, “TRACK” indicator on the emitter blinks, in this case, please replace the battery

Under-voltage alert: of the receiver: there is a power indicator (red) on the top, the voltage is lower, the indicator is darker; when it turns dark, please set up the emitter to TRACK function and keep it in work status, move the receiver detector close to RJ45 of the emitter and adjust the volume of the receiver to the maximum, if you couldn't hear the sound or it's very weak, please replace the battery.

5. Replace Battery
a) Use a cross screwdriver to screw off the bolts on the battery casing;
b) Take off the casing and take out the used battery;
c) Replace a new battery with same capacity;
d) Install back the casing and screw on the bolts.

6. Technical Specifications
Transmitting distance: ≤100m
Power supply: Emitter (three 1.5V AAA batteries);
Receiver (one 9V 6F22 battery)
Dimensions: 65x28x130mm (Emitter);
38x30x196mm (Receiver)
Weight: approx. 220g (with battery);
packing weight: approx. 380g (with accessories)
Working temperature: 0~40℃;≤80%RH
Storage temperature: -10~50℃;≤95%RH

Parts and accessorius
User manual
3 AAA batteries, 1 9V battery
1 RJ11 line, 1 RJ45 line, 1 alligator clip adapter line, 1 earphone
Portable bag

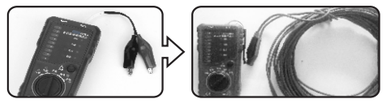
7. Maintenances and Services
Use wet cloth and a little washing agent to clean the casing in regular period; do NOT use any abrasive or chemical agent.

black is RING; if the indicator turns green, the red clip is RING wire and the black is TIP.

4) Check DC Power Level and Anode/Cathode(Only the emitter is required for this test)

a) Rotate the rotary switch of the emitter to “PHONE”;
b) Insert RJ11 terminal of the alligator clip to the emitter, red-back clips on the tested wire;
c) If “PHONE” indicator turns red, the red clip is anode and the black is cathode; if the indicator turns green, the red clip is cathode wire and the black is anode;
d) Power level: the indicator is brighter, the level is higher; the indicator is darker, the level is lower; reference range: DC 9-250V.

5) Check Connection Status(There are two methods for this test)



a) Only use the emitter to test: rotate the rotary switch to “CONNECT/DISCONNECT”, the emitter starts to work and insert RJ11 of the alligator clip to the emitter, red-black clips on two ends of the tested line; if the indicator turns green, it means the circuit is under connection; the impedance is smaller, the indictor is brighter;
b) Use TRACK to test: the operation is same as tracking function; if it can receive audio signal from other end of the line via the receiver,it means the circuit is under connection.

4. Under-Voltage Alert
Under-voltage alert: of the emitter: when the battery of the emitter

It's not allowed to dismantle the device by yourself; please contact us if any fault.

Product interface and interface specifications