

SML-TS PLUS User Manual

SML-TS PLUS 使用说明



1、普通寻线

操作方式：网线寻线

1、Normal Line scanning

Operation method: Using Ethernet cable for line scanning.



Telephone Line Scanning 电话线寻线



- 1、将发射器和接收器开关都拨至“普通寻线”档位，开始寻线。发射器电源指示灯 POWER 常亮及状态指示灯 STATUS 亮红色表示发射器正常工作。
- 2、接收器的电源指示灯 POWER 亮。在待测线路的另一端周围侦听接收器喇叭所发出的“嘟嘟”声。
- 3、比较“嘟嘟”声的大小，发出“嘟嘟”声最响的一对 线即为所要寻查一对线。

1. Set both the transmitter and receiver switches to the "Normal Line scanning " mode to start line scanning. The transmitter power indicator light (POWER) should be constantly on, and the status indicator light (STATUS) should be red, indicating that the transmitter is working properly.
2. The receiver power indicator light (POWER) should be on. Listen to the beeping sound from the receiver's speaker around the other end of the line being tested.
3. Compare the volume of the beeping sounds and identify the pair of wires with the loudest beeping sound as the line being scanned.

2、抗干扰寻线

操作方式：

2、Interference-Resistant Line Scanning

Operation method:



- 1、将网线插入发射器网线端口，将发射器和接收器开关都拨至“抗干扰寻线”档位，开始寻线。发射器电源指示灯 POWER 常亮及状态指示灯 STATUS 亮红色表示发射器正常工作。
 - 2、接收器的电源指示灯 POWER 亮。在待测线路的另一端周围侦听接收器喇叭所发出的“嘟嘟”声。
 - 3、比较“嘟嘟”声的大小，发出“嘟嘟”声最响的一对 线即为所要寻查一对 线。
1. Insert the Ethernet cable into the transmitter's Ethernet port. Set both the transmitter and receiver switches to the "Interference-Resistant Line Scanning " mode to start line scanning. The transmitter power indicator light (POWER) should be constantly on, and the status indicator light (STATUS) should be red, indicating that the transmitter is working properly.
 2. The receiver power indicator light (POWER) should be on. Listen to the beeping sound from the receiver's speaker around the other end of the line being tested.
 3. Compare the volume of the beeping sounds and identify the pair of wires with the loudest beeping sound as the line being scanned.

3、对线

操作方式：

3. Wire Pairing

Operation method:



发射器拨至“关/测线”档位，接收器处于关机状态，连接线缆，发射器和接收器的线序指示灯会依次亮起，根据发射器与接收器上的 8 个状态指示灯闪亮情况判定线路状况。

双绞线对线结果表示：如线缆正常，则 1、2、3、4、5、6、7、8 灯依次点亮，如有线缆断路，则对应灯不亮，如有线缆短路，则主机短路线对依次点亮，副机短路线对同时点亮。

Set the transmitter to the "Off/Line Test" mode and keep the receiver powered off. Connect the cable. The line sequence indicator lights on the transmitter and receiver will light up one by one. Determine the condition of the line based on the flashing of the 8 status indicator lights on the transmitter and receiver.

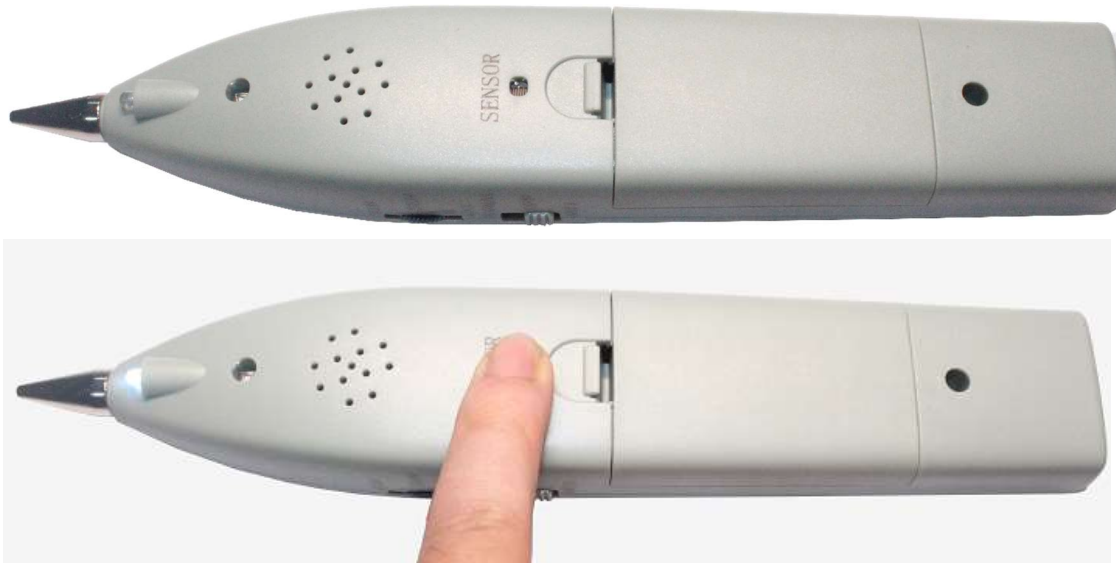
For twisted-pair lines: If the cable is normal, the lights for 1, 2, 3, 4, 5, 6, 7, and 8 will light up in sequence. If there is a cable break, the corresponding light will not light up. If there is a short circuit, the lights for the main machine shorted pair and the auxiliary machine shorted pair will light up simultaneously.

4、智能手电筒

操作方式：

4. Intelligent Flashlight

Operation method:



当光线充足时，照明灯处于关闭状态。光线不足时，照明灯会自动亮起。

The flashlight remains off when there is sufficient light. It automatically turns on when there is insufficient light.

5、灵敏度可调功能

5、Adjustable Sensitivity

在使用过程中可转动接收器上可调旋钮，直到声音大小适当为止。

During use, rotate the adjustable knob on the receiver until the sound level is appropriate.

6、单端测线功能

单端功能操作方式

6、Single-End Cable Testing Function

Operation method:



此图 8 个 LED 常亮，表示网线水晶头压接正常。

In this image, if all 8 LEDs are constantly lit, it indicates that the crystal heads of the Ethernet cable are properly connected.



此图 1, 5 灯 LED 不亮

In this image, if LEDs 1 and 5 are not lit, it indicates poor connection or disconnection of cores 1 and 5 of the Ethernet cable within 10cm of the crystal head.

The device can quickly test the connectivity of the inserted crystal head. It can quickly test the port connection status when making double-twisted-pair cables, telephone lines, and other crimping cables. Compared to the traditional method of testing connectivity after crimping both ends, using the device's single-end testing function allows immediate testing after crimping the crystal head and quickly obtaining accurate results to identify any improperly crimped ports.

Set the switch to the "Off/Single-End" position and connect the cable to be tested. If the crystal head is properly connected to the corresponding port, the corresponding port number will be indicated by the LED lights.

注意事项:

Note:

本仪器单端测线功能的最短可测试长度为 10cm, 若测试距离小于 10cm, 单端测试会产生误判。

The minimum testable length for the single-end cable testing function is 10cm. If the testing distance is less than 10cm, the single-end testing may result in false judgments.

其它功能

Other Functions

线路状态测试

Line Status Testing

线路状态测试功能能定性测试线路的一些基本状况。线路状态的测试只需由发射器完成, 不

需使用接收器。将鳄鱼夹适配线的一端插入发射器的 RJ11 插座，将适配线的另一端的红黑线夹夹上待测线路。

This function qualitatively tests some basic conditions of the line. The line status testing can be performed by the transmitter alone without using the receiver. Insert one end of the alligator clip adapter cable into the RJ11 socket of the transmitter and clip the red and black wires of the other end of the adapter cable onto the line being tested.

线路直流电平检测及正负极性判定

DC Voltage Level Detection and Polarity Determination

将发射器的功能选择开关拨至 OFF 位置，将红色及黑色线夹夹上线路。如果状态指示灯亮红色或绿色，表示线路中有直流电平。如果红色灯亮，红色线夹为正极，黑色线夹为负极；如果绿色灯亮，黑色线夹为正极，红色线夹为负极。电平的高低可由状态指示灯的明暗程度来判定；灯越亮，则电平越高；灯越暗，则电平越低。

Set the transmitter's function selector switch to the OFF position and clip the red and black wires onto the line. If the status indicator light is red or green, it indicates the presence of a DC voltage in the line. If the red light is on, the red clip is positive, and the black clip is negative. If the green light is on, the black clip is positive, and the red clip is negative. The level of the voltage can be determined by the brightness of the status indicator light. The brighter the light, the higher the voltage; the dimmer the light, the lower the voltage.

铃流信号检测

Ring Signal Detection

将发射器的功能选择开关拨至 OFF 位置，将红色及黑色线夹夹上线路。当有铃流信号进入时，状态指示灯红绿交替闪动。如果线路中同时有直流电平，则状态指示灯在红色或绿色的基础上红绿交替闪动。

Set the transmitter's function selector switch to the OFF position and clip the red and black wires onto the line. When a ring signal is detected, the status indicator light will flash alternately between red and green. If there is a DC voltage in the line, the status indicator light will flash alternately on the basis of red or green.

开路或短路测试

Open or Short Circuit Testing

将发射器的功能选择开关拨至 SCAN 位置，将红色及黑色线夹夹上线路。线缆不短路时，状态指示灯亮红色。如果短路，灯不亮。线路上的阻抗可由状态指示灯的明暗程度表示；灯越暗，阻抗越小；灯越亮，阻抗越大

Set the transmitter's function selector switch to the SCAN position and clip the red and black wires onto the line. If there is no short circuit, the status indicator light will be red. If there is a short circuit, the light will not be on. The impedance of the line can be indicated by the brightness of the status indicator light. The dimmer the light, the lower the impedance; the brighter the light, the higher the impedance.

