

## Noise-Filtering Network PoE Toner & Probe

Thank you for your purchase of Pro'sKit MT-7029 Noise-Filtering Network PoE Toner & Probe. The Toner and Probe set is used to quickly trace and identify cables or wires within a group without noise and also check the operation of telephone lines. With proper use and care, this instrument will provide many years of reliable service.

### OVERVIEW

MT-7029 with EMI filters to eliminate high frequency noise, for which allows user to quickly locate and verify the cable status and troubleshoot wiring for continuity, shorts, opens and crossover on RJ45, Lan cable Cat 5, 5e, 6 (UTP/STP), RJ11/12 telephone cable Cat. 3 (2/4/6 pin) & normal solid/stranded wire by alligator clips patch cord. Telephone line polarity and status (severed lines, the off-hook condition, or incoming call ringing) can be indicated and detected easily as well. Ideal for all installation and maintenance fields of telecommunication, networking, datacom, Audio/Video, cable TV, and all weather cabling, etc.

### SPECIFICATIONS

MT-7029 Transmitter specifications	
Tone frequency	130KHz
Max. distance of transmission	3km
Max. distance of cable map	300m
Max. working current	≤70mA
Tone mode	Single tone
Compatible connectors	For RJ45(8 pin)/RJ11(6 pin) cable map test. RJ45 SCAN socket : for RJ45 locating individual wire pairs RJ11 SCAN socket: for RJ11 locating individual wire pairs
Cable types	RJ45 Lan cable Cat 5, 5e, 6(UTP/ STP), RJ11/12 telephone cable Cat 3 (6P/2C/4C/6C)
Function selection	5 Press button switch (POWER、SCAN/PoE SCAN、TEST/FAST TEST、Ω、POL/TEL)
Continuity test	1 LED (≤300Ω), Coaxial cable & normal solid/Stranded wire by alligator clips patch cord.
Max. signal voltage	8Vp-p
Cable map indication	8 LEDs, Fast/Slow dual speed
Shielded indication	1 LED
Telephone line polarity, status indication	1 Dual color LED
Live telecommunication equipment test and router test	Yes
Voltage protection	DC 48V
Auto power off	1 hour
Low battery display	6.5V (Power LED flashes)
Battery type	DC 9.0V (NEDA 1604/ 6F22 DC9V x1pce)
Dimension (LxWxD)	138x80x35 mm
Weight	140g
MT-7029 Receiver specifications	
Frequency	130KHz
The Max. working current	≤115mA
Compatible connectors	RJ45(8 pin)/RJ11(6 pin)
Function selection	4 Position mode switch (LED, NCV, OFF, SCAN)
Earphone jack	1
Signal status indication	1 dual color LED & Buzzer
Cable map indication	8 LEDs
Shielded indication	1 LED
NCV indication	1 LED (AC90~1000V , ≥50mm , ≤100mm)
LED illumination	1 LED
Power indication	1 LED
Battery type	DC 9.0V (NEDA 1604/ 6F22 DC9V x1pcs)
Dimension (LxWxD)	203x50x32 mm
Weight	95g
Accessories	RJ45 cable patch cords, RJ11 cable patch cords, RJ11 to alligator clips patch cord, earphone, storage bag, user manual

### INTRODUCTION

#### MT-7029 Transmitter :

**⚠ Do not connect with DC 48V live circuit equipment or it will result damage.**

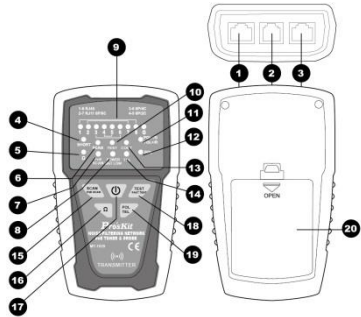


Figure 1. MT-7029 Transmitter Diagram

- 「TEST」: RJ45(8 pin)/ RJ11 (6/4/2 pin) cable mapping test socket.
- 「SCAN」: RJ11(6 pin) socket.
- 「SCAN」 RJ45 socket.

**⚠ Caution!** Do not plug in any live cable over DC 48V to the transmitter socket.

- 「SHORT」 Continuity test indication
- 「Ω」 Continuity function indicator
- 「SCAN」 Locating and isolating cables function indicator
- 「PoE SCAN」 Locating and isolating Cables function indicator
- 「POWER/BAT LOW」 Power ON/OFF & Battery low indicator
- 「1-8、G」 Cable map & Shielded indication
- 「TEST」 Cable map & Shielded function indicator
- 「POL - /G , POL + /R」 Phone line polarity indication
- 「POL」 Phone line polarity function indicator
- 「CONT」 Phone line status/polarity indicator
- 「TEL」 Phone line status function indicator
- 「SCAN」 Locating and isolating cables function button
- 「↶」 Continuity/short function button
- 「⏻」 Power ON/OFF button
- 「TEST」 Cable map & Shielded function button
- 「POL」 Phone line polarity function button
- Battery cover

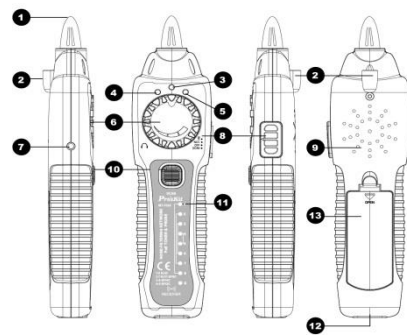


Figure 2. MT-7029 Receiver Diagram

- Probe : Used for cable tracing and NCV detection.
- LED light
- Power ON/OFF indicator
- NCV indicator
- Signal status indicator
- Volume control
- Earphone jack Φ3.5mm
- Function switch (LED/NCV/OFF/SCAN mode)
- Speaker
- 「SCAN」 Locating and isolating cables function button
- 「1-8、G」 Cable map & Shielded indication
- RJ45(8 pin)/ RJ11 (6/4/2 pin) cable mapping test socket.
- Battery cover

### OPERATION

#### Locating Insolate Cables :

Using MT-7029 to locating insolate cables with using the 130KHz analog, also trace twisted wires (UTP, STP, Cat 5, Cat 5e, Cat 6) and telephone line(Cat 3). Use with a patch cord for RJ45 / RJ11 coaxial cable, general cable and various wiring boards can be tested by using with alligator clip cable.

- Connect the black alligator clip of the Transmitter to the ground, and then connect the red clip to a jack or punch-down block
- when push「⏻」, the red indicator of "POWER/ BAT LOW" will light up and turn on the power.

SCAN : Press 「SCAN」 button for cable tracing. When the red "SCAN" indicator lights up, the cable tracing is working.

PoE Switches SCAN : Press the 「SCAN」 button twice for PoE switches cable tracing. When the red "PoE SCAN" indicator lights up, the cable tracing is working.

PoE SCAN function applicable with PoE switches and network switches.(In the cable tracing process, if the sound is weak, perhaps cable did not connect to the PoE switches/network switches or cable is broken, please switch to "SCAN" mode)

- Press 「SCAN」 button again, stop tracing.
- Put the receiver function switch at "scan", the red indicator in the middle will light up, and long press「SCAN」 on receiver to operate cable tracing function. The tracing sound will be output from speaker. When put on the earphone, there will be no sound from speaker, but from the earphone.
- Use the Receiver to find the cable location from the cable rack, patch panel, or behind the wall. The closer the cable locates, the louder signal sound will be. The signal status indicator will change from red to blue, and the brightness depends on signal strength. If the blue LED indicator light is not bright, there is no signal.
- Adjust the volume control on the receiver to locate the wire pairs from 0 cm to 15cm.

#### Isolating Cables:

To isolate the tone source in the cable bundle or at the patch panel, do the steps as described in the previous section of "Locating Cables".

- Strip the cable's shield to a length of between 30 to 45 centimeters and divide the wires into two parts. Do the wire separation to isolate the cables to verify the signal of each part. If the beeper gets louder and LED lights up, you have located the position you are looking for.
- Adjust the volume control from high to low to locate the wire that more difficult to be identified. Narrowing the length from 15 to 0 centimeters will help to identify the wire pairs more accurately.
- Repeat the steps of 1 and 2 to isolate the bundled cables.

#### Cable Map Testing :

##### ⚠ Caution

- When use the product for RJ45 or RJ11 cable mapping, please only plug in the cable to the RJ45/RJ11 "TEST socket" on the transmitter. Do not use RJ45 SCAN or RJ11 SCAN socket.
  - You can use the MT-7029 Transmitter or Receiver to validate the cable map on RJ45/RJ11 by RJ45/RJ11 compatible connector on transmitter. The cable map function finds the most common wiring faults on twisted pair cabling: shorts, opens, and crossed pairs.
- Connect the MT-7029 Transmitter or Receiver to RJ45/ RJ11 jacks.
  - Press「⏻」, the indicator of "POWER/ BAT LOW" will light up and turn on the power. Press「TEST」 on MT-7029 transmitter for cable mapping and shielded function indication. When the green LED indicator flickers slowly, the low speed scan is working. Press 「TEST」 button again, the green LED indicator flickers faster, and the fast speed scan will be operated. Press 「TEST」 button again, the product will be standby for next operation.
  - Different connectors generate different LED and sound indications
    - RJ45(8P/8C) LED indication :** MT-7029 Transmitter (from 1-8 seconds in sequence) is synchronized with the MT-7029 Receiver cable map.
    - RJ11(6P/6C, 6P/4C, 6P/2C) LED indication :** MT-7029 Transmitter cable map, 6P/6C each second from 2 to 7 in sequence, 6P/4C each second from 3 to 6 in sequence, 6P/2C each second from 4 to 5 in sequence is synchronized with the MT-7029 Receiver cable map. If it encounters an empty line, the indication will cease.
  - You can use the MT-7029 to validate the cable map on RJ11 and RJ45 connectors. The cable map function finds the most common wiring status on twisted pair cabling: good, shorts, opens, and crossed pairs.
    - Good wiring:** Each LED that corresponding to an active pin flashes briefly and in a stairway order.
    - Shorts:** If two LEDs turn on for 1 second at the same time, those two pins are shorted together. If more than 2 wires are shorted together, the LEDs for the shorted pins indicate opens.
    - Opens:** If an LED flashes briefly, then no LEDs turn on, that pin is open.

- Crossed pairs:** If one LED flashes briefly, then another LED lights for one second, the wire for the first LED is crossed pairs to the pin for the second LED.
- Each LED that corresponds to an active pin flashes briefly, it should light for about 1 second. The brief flash shows which LED is next in the sequence.

#### Coaxial Cable & Continuity Testing:

##### ⚠ DANGER

Before testing, please be sure the power of receiver is **OFF**.

To validate cable shield during cable map tests, do the following as:

- Connect the Transmitter to the circuit as shown in Figure 9. Connect the test leads to the coaxial cable to be tested.
- Press「⏻」button to turn on the power, "POWER/ BAT LOW" indicator will light up. Press「↶」button on transmitter for short/ open function, the green LED indicator lights up and the short/ open testing is working. Press「↶」again, the green LED lights off and the product is standby for next operation.
- When "SHORT" red LED indicator lights up, the cable is connected. (the resistance of cable is less than 300Ω). If the indicator is off, the cable is short or resistance of the cable is over 300Ω .

#### Validating Telephone Service and Polarity :

Please follow the following steps to check the polarity of telephone lines:

- Connect the red and black alligator clip of the Transmitter to the telephone line jack or socket or punch-down block.
- Press「⏻」button to turn on the power, "POWER/ BAT LOW" indicator will light up. Then press「POL」to operate the polarity indication feature and the LED indicator will light up. According to the function of the phone positive/negative polarity test start.
- 「POL - /G , POL + /R」 LED indicator is dual color (Red/ Green). The LED indicator of the Transmitter indicates the status as below:
  - Red light : Red alligator clip at positive (+) polarity ; Black alligator clip at negative (-) polarity.
  - Green light : Red alligator clip at negative (-) polarity ; Black alligator clip at positive (+) polarity.
  - No Light : Non service or line fault.

**Phone Status Indication Test** (only used for the analog phone lines, cannot be used in the digital telephone):

Please complete the following steps to check the status of a phone line:

- Connect the red and black alligator clip of the Transmitter to the telephone line jack or punch-down block.
- Press「⏻」button to turn on the power, "POWER/ BAT LOW" indicator will light up. Then press「TEL」button twice, the "TEL" phone line status function indicator will light up, phone status indication test start.
- In the phone status indication test, the polarities will synchronism shown. The "CONT" indicator is dual color (Red/ Green). Indicates the status as below:
  - Red light : Red alligator clip at positive (+) polarity ; Black alligator clip at negative (-) polarity.
  - Green light : Red alligator clip at negative (-) polarity ; Black alligator clip at positive (+) polarity.
  - No Light : Non service or line fault.
- "CONT" phone status indicator shows test results, it is a red/green dual color LED lights:
  - Red or green color: Standby status.
  - Not bright or dim: Served line status.
  - Flashing light: Incoming call ringing.

#### NCV (Non-Contact Voltage) Testing :

##### ⚠ Caution

The feature can be used before locating, isolating, cable mapping to identify if the tested cable is with AC voltage. It can not only help to ensure the safety of user and avoid possible electric shock or personal injury, but also protect the product from being damaged by AC power.

- Turn the switch to "NCV", the function is started when the power indication is on.
- When doing the NCV testing, place the probe of MT-7029 receiver to the tested cable, the NCV indicator twinkled fast and the buzzer sounded means the tested objective is with AC 90~1000V. If the indicator did not come on and no buzzer sounded, it means the tested objective with AC power less than 90V or there is no AC power on it.

Please scan the QR code or landing website to download the complete version: [www.prokits.com.tw](http://www.prokits.com.tw)



# Pro'sKit®

寶工實業股份有限公司  
PROKIT'S INDUSTRIES CO., LTD

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### 一、特点概述：

MT-7029-C是一款采用最新数字电路技术，用户在查找线缆时可避免电磁干扰，排除噪音，更轻松的查找目标线路；诊断RJ45网络线(UTP、STP、Cat 5、Cat 5e、Cat 6)、RJ11/12电话线(Cat. 3 (2/4/6 pin))的通路、短路、断路、交叉等状况，并提供STP & PoE交换机线缆的查找与定位；确认电话线的状态&接线极性；测试一般电线连接的状况。配有鳄鱼夹，可应用于测试同轴电缆线、一般电线和电信/网络接线板。

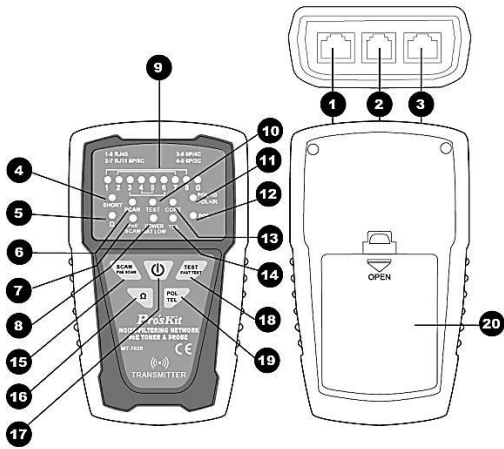
适用于电信、网络通讯、监控、有线电视等室内、外布线施工或维护等工程使用。

**注意：**任何超过DC 48V的活电的线路，不可接入本仪器任何测试插座，以免造成仪器损坏。使用PoE scan功能进行查线时，由于各厂商PoE设备的差异，有些可能会消耗较大电流，导致电池电力消耗较快，此为正常现象

MT-7029-C 音频发射器 规格	
音频发射频率	130KHz
音频最大测试距离	3 公里
线序/故障最大测试距离	300 米
最大工作电流	≤70mA
音色	单音调
可测试连接埠	TEST 插座: 提供 RJ45(8 pin)/RJ11(6 pin)线对测试 RJ45 SCAN 插座: 提供 RJ45(8pin)音频寻线使用 RJ11 SCAN 插座: 提供 RJ11(6P/6C/4C/2C)音频寻线使用。
适用电缆线	RJ45 网络线 Cat 5、5e、6(UTP/STP)、RJ11/12 电话线 Cat 3 (6P/2C/4C/6C)
功能选择	5 个按式开关(电源、寻线 SCAN/PoE SCAN、线对 TEST/FAST TEST、短路/导通 Ω、电话极性/电话线状态 POL/TEL)
短路/导通测试	1 个 LED 显示 (线路≤300Ω)，同轴电缆线和一般单芯/多芯绞线用鳄鱼夹线测试
输出信号电压	8Vp-p
线序/故障指示	8 个 LED，快/慢双速测试
网络线带遮蔽指示灯	1 个 LED
电话线 正/负极性、状态指示	1 个双色 LED
电信设备和路由器活电测试	有
电压保护	DC 48V
自动关机	约 1 小时
电池低压指示	6.5V (电源指示灯闪烁)
电池	DC 9.0V (NEDA 1604/ 6F22 DC9V x1pcs)
外观尺寸 (长×宽×高)	138×80×35 mm
重量	140 公克

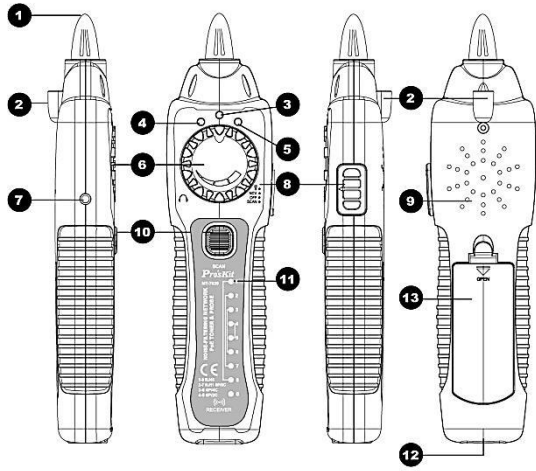
MT-7029-C 接收器 规格	
音频接收频率	130KHz
最大工作电流	≤115mA
可测试连接埠	RJ45(8 pin)/RJ11(6 pin) 共享插座
功能选择	4 段滑动开关(LED 照明、非接触验电 NCV、关机 OFF、寻线 SCAN)
耳机座	1 个
信号强弱指示	1 个双色 LED & 蜂鸣器
线序/故障指示	8 个 LED
网络线带遮蔽指示灯	1 个 LED
非接触验电(NCV)指示	1 个 LED (交流 90~1000V)
工作照明	1 个 LED
电源指示	1 个 LED
电池	DC 9.0V (NEDA 1604/ 6F22 DC9V x1pcs)
外观尺寸 (长×宽×高)	203×50×32 mm
重量	95 公克
配件	RJ45(8pin)网络线、RJ11(6pin)电话线、RJ11(6pin)鳄鱼夹线、耳机、携存袋

### 二、MT-7029-C 部件名称



MT-7029-C 音频发射器外观图

- 「TEST」:RJ45(8 pin)/RJ11(6/4/2 pin)对线测试插座
- 「SCAN」:RJ11 (6 pin)插座
- 「SCAN」:RJ45插座
- 「SHORT」:短路测试结果指示灯
- 「Ω」:短路/导通功能指示灯
- 「SCAN」:寻线功能指示灯
- 「PoE SCAN」:寻线功能指示灯
- 「POWER/BAT LOW」:电源指示灯
- 「1~8、G」:测试结果指示灯
- 「TEST」:线序/故障功能指示灯
- 「POL-/G, POL+/R」:电话极性测试结果指示灯
- 「POL」:电话极性功能指示灯
- 「CONT」:电话线路状态及极性测试结果指示灯
- 「TEL」:电话线路状态指示灯
- 「SCAN」:SCAN/PoE SCAN网络&PoE寻线功能键
- 「Ω」:短路/导通功能键
- 「Ω」:电源开/关键
- 「TEST/FAST TEST」:TEST/FAST TEST快/慢线序/故障功能键
- 「POL-/G, POL+/R」:POL/TEL电话极性&电话线状态功能键
- 电池盖






MT-7029-C 音频接收器外观图

- 音频信号探头
- LED工作照明灯
- 电源指示灯
- 非接触验电(NCV)指示灯
- 信号强弱指示灯
- 音量旋钮
- ø3.5mm耳机座
- 4段功能开关
- 喇叭
- 「SCAN」寻线功能键
- 「1~8、G」测试结果指示灯
- RJ45(8 pin)/RJ11(6/4/2 pin)测试插座
- 电池盖


### 三、操作说明

#### (一) 查找电线：

- 先将 MT-7029-C 音频发射器的黑色鳄鱼夹妥善接地，再将红色鳄鱼夹与待测线路的连接线或插座或接线板连接妥善。
- 主机开机「」电源开/关键，再按下「」SCAN/PoE 键。  
SCAN：SCAN功能适用于带电的网络交换机或不带电的跳线寻线。  
PoE SCAN：PoE SCAN功能适用于带电的PoE交换机与网络交换机。(如果在寻线过程中接收器接收目标线声音微弱，可能为跳线未连接PoE交换机/网络交换机或者跳线内部断开，请切换回SCAN进行查找)；
- 将接收器4段功能开关拨到SCAN或LED档，按下接收器「」寻线功能键进行寻线。
- 使用MT-7029-C接收器将音量调整，以适合工作环境。利用前端感应探头沿着塑料配线管、走线架、接线板或墙壁，查找布线线路的大致位置。侦测时，接收器的喇叭声音越大，表示信号最强，同时信号强弱指示灯LED由红色变为蓝色，指示灯明暗程度会随信号强度改变，当此蓝色指示灯越亮，表示信号越强，即为侦测到目标线路。
- 旋转音量旋钮，控制音量由大到小，则可以改变查找电线的灵敏度，将搜寻位置由30cm缩小到10cm以内，精确查找到电线。
- 外接耳机插座，供使用耳机接听，插入耳机为耳机接听方式，不插耳机为喇叭接听方式。


#### (二) 线对测试：

可以使用 MT-7029-C 音频发射器“TEST”两用插座，配合 MT-7029-C 接收器 RJ45/RJ11 两用插座，测试 RJ45 网络线和 RJ11 电话线的线对情况。可查找各种电缆布线常见的：通路、短路、断路、交叉的情况。

- 将待测线插入 MT-7029-C 音频发射器 RJ45/RJ11 TEST 插座，另一端插入接收器插座。
- 主机开机，再按下 MT-7029-C 音频发射器的「」线序/故障功能键，表示慢速扫描线序/故障测试的功能启动。再单击此功能键，表示快速扫描线序/故障测试的功能启动。
- MT-7029-C 音频发射器和 MT-7029-C 接收器上的通路、短路、断路、交叉表示的方式如下：
  - 「通路」的 LED 灯号显示：MT-7029 音频发射器的 LED，第 1-8、G 个 LED 亮灯，对应 MT-7029 接收器上的 LED，第 1-8、G 个 LED 同步显示。
  - 「短路」的 LED 灯号显示：如 3.4 号线短路，MT-7029-C 音频发射器的第 3 个和第 4 个 LED 依序亮灯，对应 MT-7029-C 接收器上的第 3 个和第 4 个 LED 同时点亮，但亮度较暗。(若同时短路跳线超过 3 根，因电流供电不足，对应接收器上的 LED 亮度会更暗或不亮)
  - 「断路」的 LED 灯号显示：如 3 号线断路，MT-7029-C 音频发射器的第 3 个 LED 不亮，对应 MT-7029-C 接收器上的第 3 个 LED 不亮。
  - 「交叉」的 LED 灯号显示：如 3.4 号线交叉，MT-7029-C 音频发射器的第 3 个 LED 亮灯，对应 MT-7029-C 接收器上的第 4 个 LED 同步显示；MT-7029 音频发射器的 4 个 LED 亮灯，对应 MT-7029 接收器上的第 3 个 LED 同步显示。


#### (三) 工作中的网络检测：

**注意：**此测试方法只能测试网线路通断，不能检测交叉或短路。


- 将 MT-7029-C 音频发射器妥善连接 RJ45(8P/8C)网络线或插座，另一端连接在正在工作的网络交换机上。
- 主机开机，再按下 MT-7029-C 音频发射器的「」线序/故障功能键后，当 MT-7029-C 音频发射器上的「1~8、G」测试结果指示灯，按先后顺序逐一点亮时，表示网络线 1~8、G 全部连通，如有灯号未亮，代表线路故障。

#### (四) 同轴电缆线和电线连通测试：

**警告：**测试前，应先将待测线路脱离电源。


- 当你需要确认同轴电缆线或电线连通是否有接触不良时，请依照下列步骤进行：
  - 先将 MT-7029-C 音频发射器的黑色鳄鱼夹 确认与待测电缆的一端接头、金属部分连接妥善，再将红色鳄鱼夹与待测电缆的另一端接头、金属部分连接妥善。
- 主机开机，再按下 MT-7029-C 音频发射器的「」短路/导通功能键，当「SHORT」短路测试结果红色指示灯亮起时，表示连通(阻抗<300Ω)；当指示灯不亮时，表示无连通，或是遮蔽不良和连通不良(阻抗>300Ω)。

#### (五) 电话线正负极性测试：

- 先将MT-7029-C音频发射器的红、黑色鳄鱼夹，分别与待测电话线路的连接线或插座或接线板的两端连接妥善。
- 主机开机，再按下 MT-7029-C 音频发射器的「」电话极性功能键。
- 「POL-/G, POL+/R」电话极性测试结果指示灯，是一个红/绿双色 LED 指示灯：
  - 红色指示灯亮起时，代表红色鳄鱼夹端为电话局线的“+”极，黑色鳄鱼夹端为电话局线的“-”极。

- 绿色指示灯亮起时，代表红色鳄鱼夹端为电话局线的“-”极，黑色鳄鱼夹端为电话局线的“+”极。
- 当指示灯不亮时，代表电话线路无供电或是线路故障。

#### (六) 电话状态指示测试（只能使用在仿真电话线路上，不能在数字电话上使用）：

- 先将MT-7029音频发射器的红、黑色鳄鱼夹，分别与待测电话线路的连接线或插座或接线板的两端连接妥善。
- 主机开机，再连续两次按下MT-7029-C音频发射器的「」电话极性功能键。
- 测试电话线状态时，机会同步显示其电话极性：
  - 当CONT红色指示灯亮起时，代表红色鳄鱼夹端为电话局线的“+”极，黑色鳄鱼夹端为电话局线的“-”极。
  - 当CONT绿色指示灯亮起时，代表红色鳄鱼夹端为电话局线的“-”极，黑色鳄鱼夹端为电话局线的“+”极。
  - 当CONT指示灯不亮时，代表电话线路无供电或是线路故障。
- 「CONT」电话状态测试结果指示灯，是一个红/绿双色LED指示灯：
  - 当CONT 指示灯亮红色或绿色时，表示待机状态。
  - 当CONT 指示灯不亮或变暗时，表示占线状态。
  - 当CONT 指示灯闪烁时，表示响铃未接听状态。

#### (六) NCV 非接触验电：

- 将 4 段功能选择开关，拨切至「NCV」档位后，电源指示灯亮起，表示「NCV」非接触验电测试功能启动。
- 将 MT-7029-C 接收器的前端感应探头靠近被测物，进行非接触验电(NCV)测试，当非接触验电(NCV)指示灯快速闪烁、同时蜂鸣警报时，代表被测物具有 90~1000V 交流电压。当指示灯不亮、无蜂鸣警报时，代表被测物的交流电压低于 90V 或是没有交流电压。

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