

"NETWORK" LED IS LIGHTED

The Network LED indicates a powered network device is present (switch, a PC NIC card, access point, VoIP phone, IP security camera, etc.). The Power Panel detects the link pulses, lights the ALERT LED and displays the pair(s), speed and duplex.

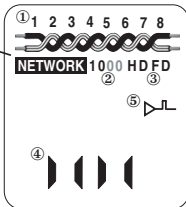


NETWORK ALERT LED LIGHTS IF PRESENT

When a VoIP phone, IP camera, switch or other network device is spotted, the NETWORK LED lights. Press SEL to locate display.

NETWORK DISPLAY (available if LED is lit)

- ① Pair(s) with activity
- ② Speed of the device
(10, 100, 1000 MB/s). "Advertised" if a single unit. "Negotiated" if inline.
- ③ Duplex of the device (half or full)
- ④ Data is flowing between devices (inline connection only)
- ⑤ "FORCE LINK" button is pressed



FORCE LINK BUTTON Press if you suspect a network device is present but are receiving little or no link information (an ALERT LED but no display). Some network devices refuse to "talk" unless prompted. The FORCE LINK button sends link pulses...prompting a dialog. Caution: When inline, link pulses from pressing FORCE LINK may disrupt existing communications.

LINK BEACON: When the FORCE LINK button is latched, transmitted link pulses cause the link LED on the receiving device to blink. This helps locate ports in crowded panels. To "latch", hold the button for more than 5 seconds (link pulses will transmit for 30 minutes). Press any button to unlatch. When latched, "Lb" displays on the LCD.

LEAVE CONNECTED: The Power Panel can remain connected inline between two devices without affecting the communication on the link. This is true whether the Power Panel is in ON or OFF. This makes the inline version perfect as a long term, practical monitoring device.

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"POE" LED IS LIGHTED

The PoE LED indicates that Power over Ethernet is on the cable. The cable pairs, amplitude of PoE voltage and, if connected inline, PoE power are displayed. Further, pressing TEST PoE prompts the full 48VDC voltage (see glossary below).



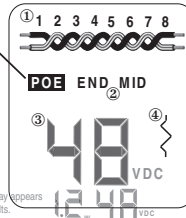
POE ALERT LED LIGHTS IF PSE/POE PRESENT

Press SEL to locate display.
Discovery voltage is 5-15VDC. Full PoE (48VDC).
Typical power is 5-10 watts
Note: If not connected inline, use the center connector.

POE DISPLAY (available if LED is lit)

- ① Pairs where PoE exist
- ② Type of PoE device*
- ③ Power (watts) / Voltage (DC)
(display auto toggles between power and voltage)
- ④ "TEST POE" button depressed

*A PSE at the end of a cable supplying power on 1/2 & 3/6 is an "endspan device" (typically a switch with built-in PoE). A PSE placed in the middle of a cable on pairs 4/5 & 7/8 is a "midspan device".



Power (watts) display appears first, followed by volts.

NOTE ON POWER (WATT) DISPLAY: To measure a device's power draw, the Power Panel must be connected inline (in between) the PSE switch and the PoE device.



Tests the operation of the PoE voltage source by applying a load in compliance with both IEEE and Cisco standards. This load should trigger the full 48VDC PoE voltage. Caution: When inline, only press if you are familiar with all devices and how they react to 48VDC.

WHAT IS POE: Power supplied to network devices over a CAT5/6 cable (no separate AC power required). Many VoIP phones, IP cameras and access points are PoE devices. **WHAT IS PSE:** Devices that supply PoE are "Power Sourcing Equipment". PoE capable switches and PoE injectors are examples of PSE devices.

PoE OPERATION: PoE standard IEEE 802.3af suggests that a PSE send a low power "discovery voltage" and when a proper load is sensed, apply the full voltage (48VDC).

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"PHONE" LED IS LIGHTED

Although not allowed by any standard, digital and analog phones and FAXs are on CAT5/6 cables. These high voltage devices can damage other devices if you are not aware of their presence. The Power Panel CAT5/6 DVM searches for them, lights the ALERT LED and displays the phones' voltages. Up to 4 phones can be displayed.



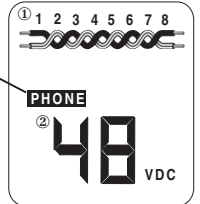
PHONE ALERT LED LIGHTS IF PRESENT

When an analog or digital phone or FAX machine is present, the PHONE LED lights. Press SEL to locate display.

PHONE DISPLAY (available if LED is lit)

- ① Pairs with activity
- ② Amplitude of voltage
48VDC is typical central office voltage

Up to 4 phone devices are displayed
LCD displays multiple phones automatically



LEAVE CONNECTED: The Power Panel can remain connected inline between two devices without affecting the communication. This is true whether the Power Panel is ON or OFF. The inline version is designed as a long term, practical monitoring device.

WARRANTY: The manufacturer warrants to the original consumer that this product is in good working order for a period of one year from the date of manufacture or date of purchase. During this period, the product will be repaired or replaced without charge for either parts or labor. Repair or replacement as provided under this warranty is the exclusive remedy of the purchaser.

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Network Test and Repair Tools

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