



WS-PoE Tester/Detector



Source side



load side

Specifications:

(full manual at <http://wifi-texas.com/pdf/WS-POE-tester-insert.pdf>)

- Measure power inline during active operation at up to gigabit speeds
- 2 independent Volt and Ammeters for all PoE methods. For measuring passive and 802.3af type PoE, 802.3at, and also DC power supplies.
- 5 Operation modes – display Voltage, Current and Power
 - 802.3af PoE switch connected – triggers a PoE switch to turn on
 - Mode A voltage on pins 1,2 and 3,6 of the RJ45 connector
 - Mode B voltage on pins 4,5 and 7,8 of the RJ45 connector
 - 2.1mm DC plug connector – shares the display with Mode A
 - B and A can operate at the same time with different supplies
 - RJ 45 connector LEDs indicate reversed power.
- Voltage Range
 - Mode A and Mode B connector – 20v to 56v
 - DC Connector – 7v to 56v
 - 1% accuracy
- Amps measured
 - Mode A and Mode B – 0 to 0.5 amp @ 1 % accuracy
 - DC connector – 0 to 5 amps @ 1% accuracy
- Display modes – repeating cycle of
 - U indicates Voltage
 - A indicates Amps
 - P indicates Power – Volts * Amps
- Data compatibility: 10/100 and gigabit data rates are supported in all modes – transformer isolated data passes thru on all 4 pairs.
- Test a power supply with the included 2.1mm jumper cable

Connect the PoE tester bottom side to your device. Connect the PoE tester top side to your Switch or Injector.

568A input is for most PoE switches – 1,2 is minus, 36 is plus voltage

568B input is for passive PoE injectors – or for installations with a cross over cable on pins 12 and 36

RJ45 output passes the input voltage and signal to the load

Once power is flowing to the device, the PoE tester will display the Volts (U) the Amps (A) and Volts * Amps as Power (P). The display will cycle thru these values. The current is measured by the current flowing from the source RJ45 connector to the load RJ45 connector.

Passive PoE - If the source is passive PoE – then the voltage will be displayed with or without load. Most passive PoE use Mode B (45 + and 78 -). If the PoE is reversed, then the Blue Reverse LED will light up. Our WS-RJ45 can be used for reverse PoE. Power and data will be present on the LOAD side of the tester. Once current is flowing, the Amps and Power will be displayed in rotation.

802.3af - If the source is an 802.3af switch, then there will be no indication unless the 802.3af switch is set ON, or an 802.3af compatible load is connected. Once a 802.3af device is connected, the voltage, current and power will be displayed. Note – if there is no load connected, and you see a pulsing RJ45 light – then move the switch to the other 568 input.

802.3at - An 802.3at compatible PoE switch should provide power on all 4 pairs of the Ethernet cable – in this case – both displays will activate – and the power is the total of the two displays. A 802.3at load must be connected.

DC connector – A power supply can be tested with this device. Connect power supply to the top 2.1mm connector, the voltage will be displayed – from 7 volts to 56 volts. Connect the load side to the device to be powered, for example with a WS-POE-16 multiport injector – the total load of all devices will be displayed on the Mode A display. Note – it is possible to use the DC connector and Mode B at the same time.

Testing 18v or lower PoE. See our PoE-Tester V3 for PoE down to 10 volts in mode B.



See also our
Multi PoE injectors

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