

# Tell-All™ Port Wiring Indicator

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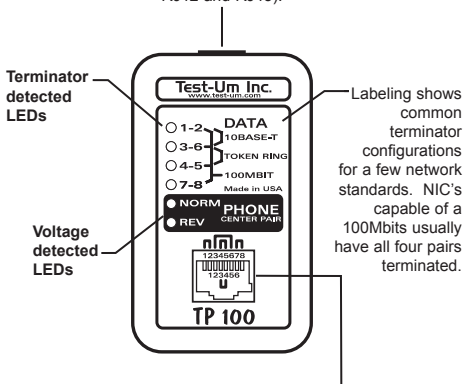
## User's Guide

[www.jdsu.com/know](http://www.jdsu.com/know)





Connect clear colored plug of cable provided into the top of the Tell-All port wiring indicator. The transparent blue plug is a universal plug suitable for use on 2 through 8 position modular jacks (RJ11, RJ12 and RJ45).



View into RJ jack shows pin assignments. Horse shoe shapes above the connector outline shows pairing of DATA lines monitored for terminators. The single horse shoe in the middle of the connector outline is the pair monitored for voltage.

## Tell-All Port Wiring Indicator TP100

# Introduction

The Tell-All port wiring indicator is designed to aid network technicians and MIS personnel in the identification of the equipment connected to modular jacks found through out the work place. The Tell-All port wiring indicator aids in determining what type of equipment is connected to the other end of a wall plate or cable by being able to detect cable terminators on all 4 pairs of a TIA568A/B wired jack or plug and by being able to detect voltage on the center pair.

# **LED Indication**

## **Terminator detected LEDs**

A LED will light for each pair that is terminated to a NIC or hub at the other end of the cable. Two or more LEDs being lit usually indicates a data network jack.

## **Voltage detected LEDs**

One of the two LEDs will light to indicate presence of a DC voltage on the middle pair. The NORM LED will light if the polarity is correct for an analog phone line. The REV LED will light for the opposite polarity. Usually the jack is an analog or digital phone line if one of these LEDs lights. If both are on at once, the voltage is AC.

## Operation

- 1) Connect the unknown cable directly to the Tell-All port wiring indicator or connect the Tell-All port wiring indicator to a wall jack or patch panel using the cable provided. The clear plug of the provided cable is intended to be plugged into the Tell-All port wiring indicator. The transparent green plug is a special universal plug able to be plugged into 2 through 8 position modular jacks.
- 2) LED indicators will light if terminators or voltage is present at the other end of the cable. If no LEDs light, the cable is most likely not connected.
- 3) Interpret the results: If one or several of the upper four LEDs, marked with the pin numbers of the RJ45 pairs they represent (1-2, 3-6, 4-5 and 7-8), the other end of the cable is loaded with a termination load. The cable is most likely connected to network equipment such as a HUB or a NIC (Network Interface Card). The specific pairs terminated can tell which type of data protocol is being used. Multi-protocol Hubs and ICs will most likely have all pairs terminated regardless of which protocol is currently

selected. See chart below for common usage of pairs. If one or both of lower two LEDs is on, voltage is present on the middle pair of the RJ jack (4-5 on RJ45's or 3-4 on RJ11's, RJ12's). Both LEDs on continuously indicates presence of an AC voltage, which is not normal. Disconnect from the line and proceed with caution. Short intervals of both LEDs blinking is usually a ringing analog line. One of the LEDs being on solid indicates the presence of a DC voltage. The LED marked NORM will illuminate if the polarity of the voltage is such as to be the "normal" polarity of an analog phone line. IF the REV marked LED is on the polarity is the "reverse" of the standard. (Most modern phone equipment is not sensitive to the polarity of the voltage.) If NORM or REV is on, the phone line may be analog or digital.

- 4) Disconnect the Tell-All port wiring indicator when finished interpreting the results. The Tell-All port wiring indicator draws power from the battery only when the LEDs are on. Connecting it to a network or phone line for the minimum time required to do the job will maximize battery life.

## **Battery Low**

When the LEDs become dim on a DATA jack, replace battery.

## **Battery Replacement**

A 6 volt L1325 1/2AA size battery powers the Tell-All port wiring indicator. Battery removal and installation is as follows:

- 1) Remove 1 screw from back of unit using a #1 Phillips screwdriver. Carefully open unit.
- 2) Remove old battery.
- 3) Install new battery.
- 4) Be sure + on battery matches + on battery holder.
- 5) Close unit, replace screw, being careful not to over tighten the screw.

## **Specifications**

### **Physical Size**

Dimensions: 8.25 x 5 x 3.17 cm

Weight: 144 grams (4 oz.) with battery



# Customer Services

This section provides a description of customer services available through JDSU (including returns policies and procedures) and warranty information.

## **Customer Service (Standard Services)**

Customer Service accompanies the sale of every JDSU product. Customer Service services include:

- Technical Assistance (Business Hour)
- Instrument Repair (Under Warranty Repair, Calibration Services, and Upgrade Services)
- Immediate Return Authorizations

***Technical Assistance*** Expert business hour technical support is included with your product.

***Instrument Repair*** Our service centers provide repair, calibration, and upgrade services for JDSU equipment. JDSU understands the impact of equipment down time on operations and is staffed to ensure a quick turnaround. Available services include the following:

*Product Repair* — All equipment returned for service is tested to the same rigorous standards as newly

manufactured equipment. This ensures products meet all published specifications, including any applicable product updates.

*Calibration* — JDSU's calibration methods are ISO approved and based on national standards.

*Factory Upgrades* — Any unit returned for a hardware feature enhancement will also receive applicable product updates and will be thoroughly tested, ensuring peak performance of the complete feature set.

***Equipment Return Instructions*** Please contact your regional Technical Assistance Center to get a Return or Reference Authorization to accompany your equipment. For each piece of equipment returned for repair, attach a tag that includes the following information:

- Owner's name, address, and telephone number.
- The serial number (if applicable), product type, and model.
- Warranty status. (If you are unsure of the warranty status of your instrument, contact Technical Assistance.)
- A detailed description of the

problem or service requested.

- The name and telephone number of the person to contact regarding questions about the repair.
- The return authorization (RA) number (US customers), or reference number (European Customers).

If possible, return the equipment using the original shipping container and material. If the original container is not available, the unit should be carefully packed so that it will not be damaged in transit; when needed, appropriate packing materials can be obtained by contacting JDSU Technical Assistance. JDSU is not liable for any damage that may occur during shipping. The customer should clearly mark the JDSU-issued RA or reference number on the outside of the package and ship it prepaid and insured to JDSU.

## Warranty Information

JDSU guarantees that its products will be free of all defects in material and workmanship. This warranty extends for the period of 12 months for test instruments and 3 months for cables from date of manufacture or purchase (proof of purchase required).

All product deemed defective under this warranty will be repaired or replaced at JDSU's discretion. No further warranties either implied or expressed will apply, nor will responsibility for operation of this device be assumed by JDSU.



## WEEE Directive Compliance

JDSU has established processes in compliance with the Waste Electrical and Electronic Equipment (WEEE) Directive, 2 002 /96/EC. This product should not be disposed of as unsorted municipal waste and should be collected separately and disposed of according to your national regulations. In the European Union, all equipment purchased from JDSU after 005 -08 -13 can be returned for disposal at the end of its useful life. JDSU will ensure that all waste equipment returned

is reused, recycled, or disposed of in an environmentally friendly manner, and in compliance with all applicable national and international waste legislation. It is the responsibility of the equipment owner to return the equipment to JDSU for appropriate disposal. If the equipment was imported by a reseller whose name or logo is marked on the equipment, then the owner should return the equipment directly to the reseller. Instructions for returning waste equipment to JDSU can be found in the Environmental section of JDSU's web site at [www.jdsu.com](http://www.jdsu.com). If you have questions concerning disposal of your equipment, contact JDSU's WEEE Program Management team at [WEEE.EMEA@jdsu.com](mailto:WEEE.EMEA@jdsu.com).

Notes:



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