DIGITUS®

Network and Communication Cable Tester, RJ45 and BNC

Quick installation guide

DN-14001-1

According to the European WEEE directive, electrical and electronic equipment must not be disposed with consumers waste. Its components must be recycled or disposed apart from each other. Otherwise contaminative and hazardous substances can polluteour environment.

You as a consumer are committed by law to dispose electrical and electronicdevices to the producer, the dealer, or public collecting points at the end of the devices lifetime for free. Particulars are regulated in national right. The symbol on the product, in the user's manual, or at the packaging alludes to these terms. With this kind of waste separation, application, and waste disposal of used devices you achieve an important share to environmental protection.

1.0 Safety Instruction

Put the Device always on a stable and straight Surface. In case of falling it can be damaged.

Don’t place the Device into direct Sunlight or in Places with high Temperature. This can damage the Device or shorten his average useful Life.

Don’t place it in the near of Heat Sources, like Radiators or other heat producing Devices.

Don’t expose the Device to Rain, Water, Wetness or high Humidity. Don’t place it in the Bathroom or the Kitchen in the near of a Sink. Avoid the direct Contact with Water.

Don’t try to open the Device.

Prior to the first use of our product make a backup of your data. We are not liable for any loss of data, unless you can accuse us intention or gross negligence.

In any case, liability for loss of data is limited to the effort that is necessary to restore from existing backup copies.

Please read the Manual and Safety Instructions before using the product for the first time. Otherwise damage can be the result.

2.0 Introduction

The LAN tester makes it easy to identify the correct PIN assignment of 10Base-T, 10Base-2, RJ45/TM11 modular cables as well as 258A, TIA-568A/568B and token ring cables by comparing the outgoing cable end with the corresponding receiving cable end. With the remote tester, you can test cables that are installed at a different location, for instance in wall distributors or patch fields. Easy identification of cabling is guaranteed.

2.1 Specification

- Test the correct pin configuration of 10Base-T, 10Base-2 Ethernet cable, RJ45/RJ11 modular cables, 258A, TIA 568A/568B and Token Ring Cable etc.
- Easy to read cable status and verify cable continuity, open short and miswire.
- With remote kit, it can remotely test cable far away either on wall plate or patch panel.
- Test the grounding
- With auto or manual scan
- Operates with 9 Volt block battery (not included)

2.2 Package Contents

1x Main device
1x Remote device
1x PoE testing device
2x BCN adapter cable
1x BNC plug/plug adapter
3x RJ45 to RJ11 adapter
1x Quick installation guide
1x Hard shell case

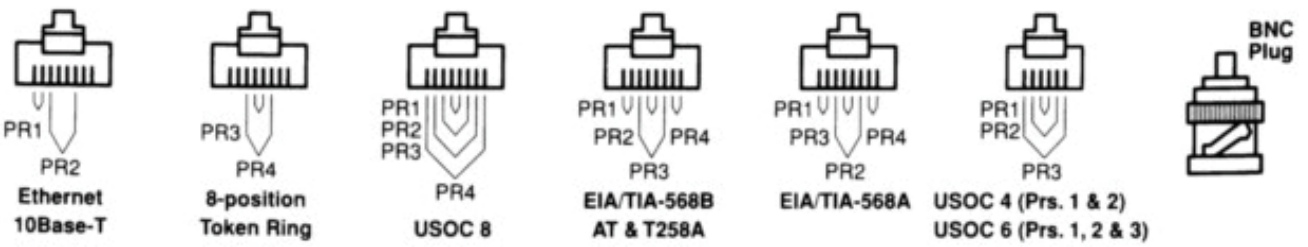
2.3 Product Profile

Main Unit

1. RJ45 Jack
2. RJ45 Jack
3. LED Display for sourcing end (Jack 1)
4. LED Display for receiving end (Jack 2)
5. Power switch
6. LED Scanning mode switch

Remote Unit

7. Test switch for manual scan
8. RJ45 Jack
9. LED display for receiving end (same as Jack 2)
10. Ground LED for Receiving end
11. Battery compartment (9V)



3.0 Operation

3.1 Loopback Test

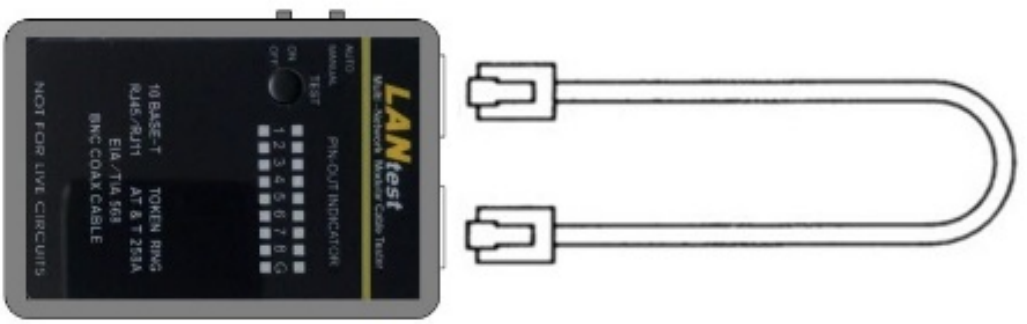
- **10Base-T Cable Test**

1. Plug one end of tested cable on sourcing of RJ45 jack (Marked with '.A.') and another end of tested cable on remaining receiving RJ 45 jack.
2. Slide power switch on, the upper row LEDs will start to scan in sequence if the Auto/Manual switch is set on Auto mode, or the LED will light on pin 1 if the Auto/Manual switch is set on Manual mode.

   Note: You have to make sure the battery power is sufficient. If battery fails to the power, the LEDs will be dimmed or hold up or no light, and the test result will be incorrect.

3. Choose the Auto/Manual switch to be Auto scan mode orManual scan mode by pressing the Auto/Manual switch.
4. In this moment the corresponding LED indicators of anotherrow of LED will light up simutaneously.
5. Read out the result of LED display. It tells you the pin configuration status of the tested cable. If you fail to read theresult in the first run of LED scan, you may read it again in the the test switch one by one until you read the result out.

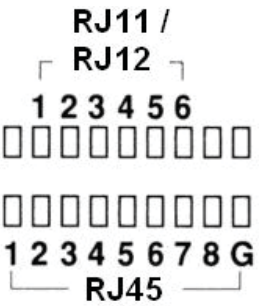
Loopback Test



- **Modular Cable test**

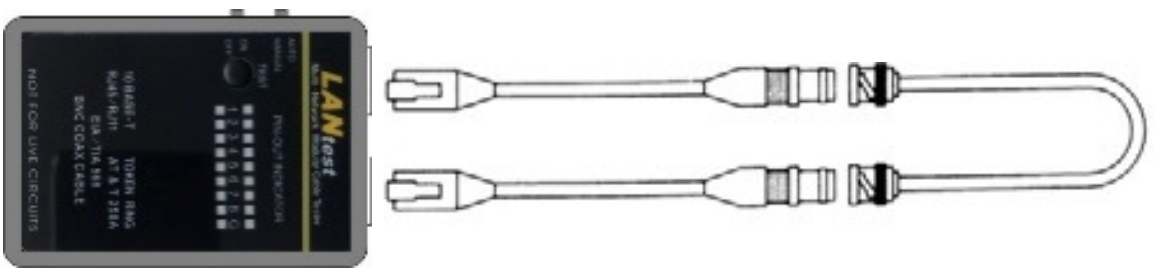
  Please follow up the procedures of 10Base-T Cable Test.

  However, the LED display should be read as the right picture.



- **10Base-2 Cable Test**

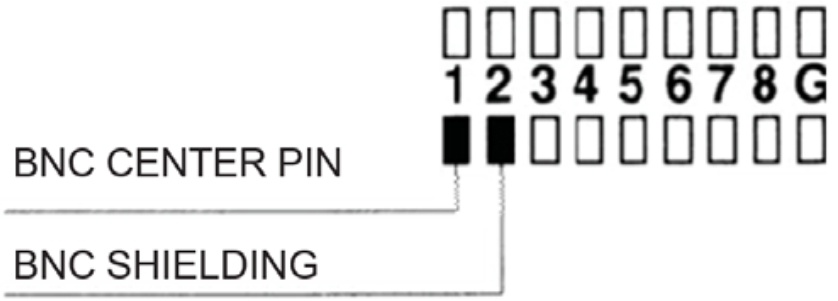
1. Plug the two attached BNC adaptor cables on both RJ45jacks, then connect the tested cable both ends on BNC adaptor cables.



2. As to the remaining procedures, you may refer to 10Base-T cable test from step 1.2. to 1.5.

Note:

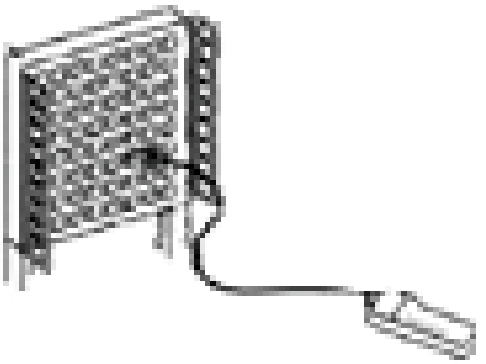
1) The center pin of BNC should be read on LED 1 and shielding pin of BNC should be read on LED 2.



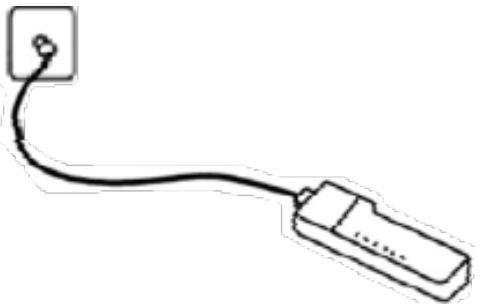
2) As the 10Base-2 cable has only two wires, we suggest you to read the result of LED scan by manual mode.

3.2 Remote Test

1. Plug one end of tested cable on the sourcing RJ45 jack (Marked with '.A.') of master unit and another end on the receiving RJ45 jack of remote unit. If the tested cable has already installed on the patch panel or wall plate, you may usethe adaptor cable to solve the connector gender problem.



Patch Panel

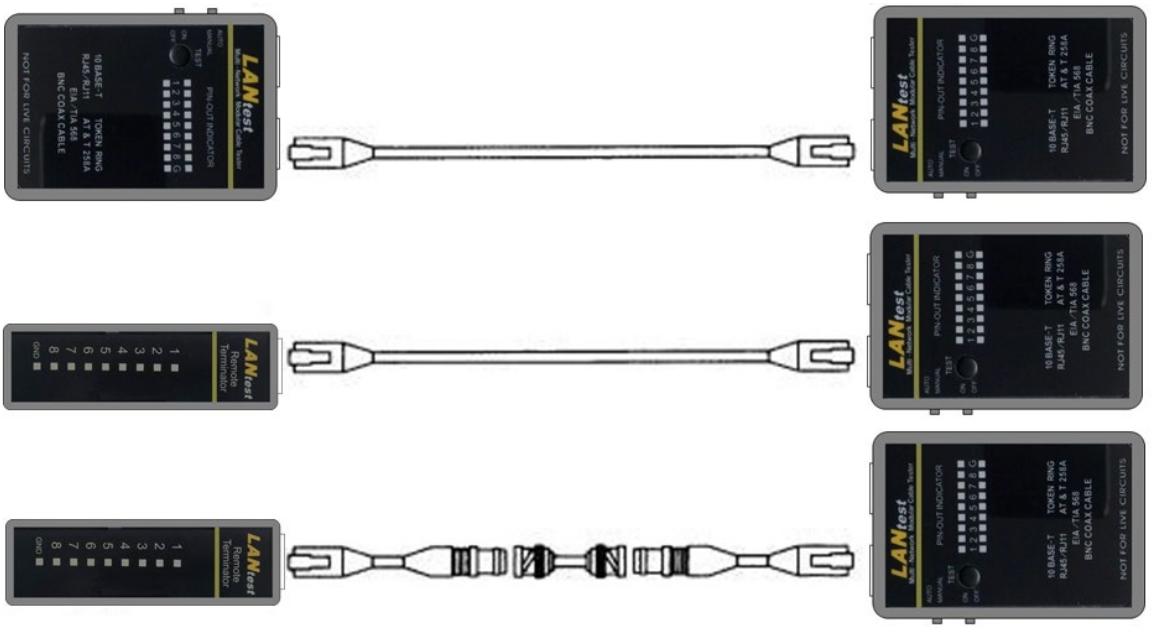


Wall Plate

2. Now, set the Auto/manual switch on Auto mode if you work test alone.

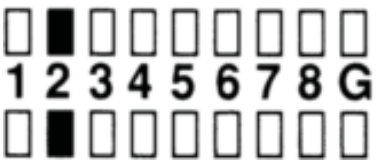
3. Read the test result from LED display on remote unit.

   Note: The LED display on remote unit was scanned in sequence corresponding to the sourcing end of masterunit.



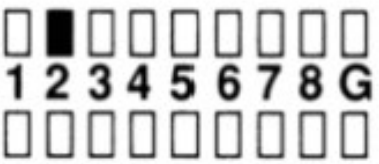
4.0 Test Result

1. Continuity:



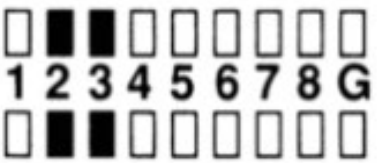
Pin 2 is continued

2. Open:



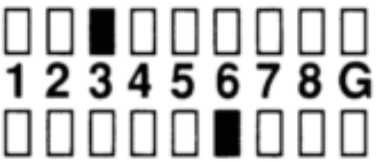
Pin 2 is opened

3. Short:



Pin 2 and Pin 3 are shorted

4. Miswire:



Pin 3 and Pin 6 are miswired

5.0 Warning

- This tester is not intended for use on powered circuits. Attaching this tester to a powered circuit can result in damage to the tester or injury to the user.
- If you will not use the tester for a long time, take off the battery from battery compartment.

 014/30/EU Electromagnetic Compatibility (as amended)

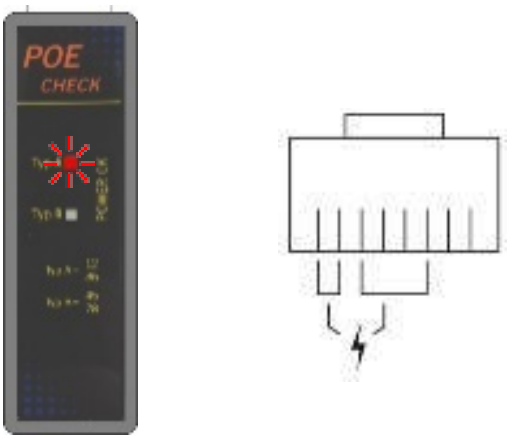
5.0 Specification

POE Test is applied to the standard equipment of IEEE 802.3af and IEEE 802.3at (POE Plus).

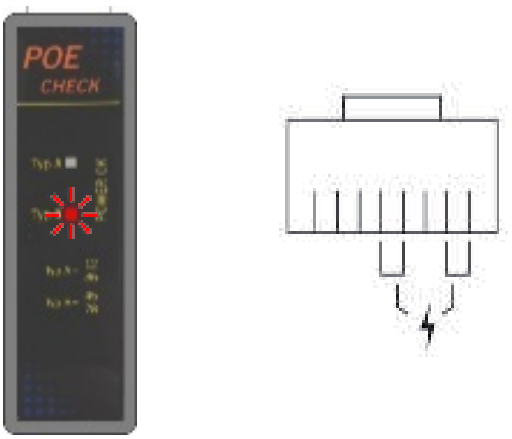
Operating Voltage 24V AC/DC^60V AC/DC

Operating Current <10mA

Insulation Voltage >1500VAC



Alternative A
A class connection (End-Span).
Pin 1,2,3,6 powers.



Alternative B
B class connection (Mid-Span).
Pin 4,5,7,8 powers.

Hereby Assmann Electronic GmbH, declares that the Declaration of Conformity is part of the shipping content. If the Declaration of Conformity is missing, you can request it by post under the below mentioned manufacturer address.

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