TEMPO COMMUNICATIONS PA1574 Network Tester Instruction Manual

PA1574
RJ45 Network Tester
INSTRUCTION MANUAL

Contents

Description

The PA1574 RJ45 Network Tester is a continuity tester for UTP and flat satin cables with RJ45 terminations. This tool tests both data and telephone connection schemes including patch cords and installed cables to identify good connections, opens, shorts, and cross-connections.
Note: Will also test RJ11 and RJ12 connections.
Keep this manual available to all personnel. Replacement manuals are available upon request at no charge at www.TempoCom.com.
Do not discard this product or throw away!
For recycling information, go to www.TempoCom.com.
All specifications are nominal and may change as design improvements occur. Tempo Communications Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

Important Safety Information

Electric shock hazard:
Contact with live circuits could result in severe injury or death.

Specifications

Weight: 5.15 oz (146 g)
Dimensions:
Main Unit: 4.25″ L x 2.48″ W x 1.10″ D (108 mm x 63 mm x 28 mm)
Remote Unit: 4.25″ L x 1.38″ W x 1.10″ D (108 mm x 35 mm x 28 mm)
Output (main unit): 9 VDC nominal at 3 mA max.
Connection Type: RJ11, RJ12, and RJ45 UTP modular plug
Battery: 9 VDC
Battery Life: 50 hours continuous use
Max. Cable Length: 1000 ft (300 m)

Operation

Testing Cables for Pin-out Wiring Configuration (Cable Mapping)

1. To test local patch cables, connect the cable between the RJ45 sockets on the top side of the main test unit.
2. To test installed cables, use a patch cable to connect the main test unit RJ45 socket to the wall jack. Use a patch cable to connect the remote unit to the wall jack or hub at the opposite end of the cable.
3. Turn the main unit “on/off” switch to the “on” position. The “on” position will provide a fast test. Move the switch to the “slow” position for a slow test.
4. Read the lights for pins 1 through 8 on the main unit for patch cables, or for installed cables use the LEDs on the main unit and remote, to determine connections through the cable.
5. Refer to test examples on reverse for determining cable faults.
6. If the cable being tested does not have a shield, the G LEDs will not illuminate.

Patch Cable Testing / Installed Cable Testing

Good Connection — Pin 4-to-Pin 4		Cross Connection — Pin 4-to-Pin 6		Open Connection — Pin 4		A = Main Unit Out B = Remote A = Salida de unidad principal B = Unidad remota A = Appareil principal Out B = Appareil secondaire
A	B	A	B	A	B	
1 2 3 4 5 6 7 8 G	1 2 3 4 5 6 7 8 G	1 2 3 4 5 6 7 8 G	1 2 3 4 5 6 7 8 G	1 2 3 4 5 6 7 8 G	1 2 3 4 5 6 7 8 G	

Sample Test Results

Remote Lights	Cable Fault
1 2 3 4 5 6 7 8 G	None, cable wired correctly
2 1 3 4 5 6 7 8 G	Conductors 1 & 2 reversed
1 2 & 3 2 & 3 4 5 6 7 8 G	Conductors 2 & 3 are shorted
1 2 3 – 5 6 7 8 G	Conductor 4 is open
1 2 4 3 6 5 7 8 G	Pair 3/6 is transposed with pair 4/5
1 2 3 7 5 6 4 8 G	Conductors 4 & 7 are switched
1 2 3 4 5 6 7 – G	Conductor 8 is open
1 2 3 7 5 6 4 8	No shield or bad shield

Tempo Communications
1390 Aspen Way • Vista, Ca 92081 • USA
800-642-2155 • Latin America: 760-510-0558
EMEA
Tempo Europe Ltd.• Brecon House, William Brown Close Cwmbran, NP44 3AB, UK
Tel: +44 1633 927 050

Documents / Resources

	TEMPO COMMUNICATIONS PA1574 Network Tester [pdf] Instruction Manual PA1574 Network Tester, PA1574, Network Tester, Tester

References

- Tempo Communications – Industry-leading Test and Measurement Solutions