**INSTRUCTION MANUAL**

TEMPO COMMUNICATIONS

# PA1574
# RJ45 Network Tester

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## 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

| | |
|---|---|
| | **⚠WARNING** |
| | Electric shock hazard:<br>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**
**Pruebas de cables de conexión / Pruebas en cables instalados**
**Contrôle de câble de raccordement / Contrôle de câble installé**

| Good Connection – Pin 4-to-Pin 4<br>Buena conexión – Clavija 4-a-clavija 4<br>Bonne connexion – Broche 4 à broche 4 | | Cross Connection – Pin 4-to-Pin 6<br>Conexión cruzada – Clavija 4-a-clavija 6<br>Inversion – Broche 4 à broche 6 | | Open Connection – Pin 4<br>Conexión abierta – Clavija 4<br>Connexion ouverte – Broche 4 | | |
|---|---|---|---|---|---|---|
| **A** | **B** | **A** | **B** | **A** | **B** | |
| 1 | 1 | 1 | 1 | 1 | 1 | A = Main Unit Out<br>B = Remote<br><br>A = Salida de unidad principal<br>B = Unidad remota<br><br>A = Appareil principal Out<br>B = Appareil secondaire |
| 2 | 2 | 2 | 2 | 2 | 2 | |
| 3 | 3 | 3 | 3 | 3 | 3 | |
| 4 | 4 | 4 | 4 | 4 | 4 | |
| 5 | 5 | 5 | 5 | 5 | 5 | |
| 6 | 6 | 6 | 6 | 6 | 6 | |
| 7 | 7 | 7 | 7 | 7 | 7 | |
| 8 | 8 | 8 | 8 | 8 | 8 | |
| G | G | G | G | G | G | |

**Sample Test Results / Ejemplo de resultados de prueba / Exemple de résultats de mesure**

| Remote Lights<br>Luces remotas<br>Voyants d'appareil secondaire | Cable Fault | Fallo de cable | Défaut de câble |
|---|---|---|---|
| 1 2 3 4 5 6 7 8 G | None, cable wired correctly | Ninguno, cable alambrado correctamente | Néant, câble correctement broché |
| 2 1 3 4 5 6 7 8 G | Conductors 1 & 2 reversed | Conductores 1 y 2 invertidos | Conducteurs 1 et 2 inversés |
| 1 2 & 3 2 & 3 4 5 6 7 8 G | Conductors 2 & 3 are shorted | Conductores 2 y 3 están en cortocircuito | Conducteurs 2 et 3 en court-circuit |
| 1 2 3 – 5 6 7 8 G | Conductor 4 is open | Conductor 4 está abierto | Conducteur 4 ouvert |
| 1 2 4 3 6 5 7 8 G | Pair 3/6 is transposed with pair 4/5 | Par 3/6 está traspuesto con el par 4/5 | Paire 3/6 transposée avec la paire 4/5 |
| 1 2 3 7 5 6 4 8 G | Conductors 4 & 7 are switched | Conductores 4 y 7 están conmutados | Conducteurs 4 et 7 commutés |
| 1 2 3 4 5 6 7 – G | Conductor 8 is open | Conductor 8 está abierto | Conducteur 8 ouvert |
| 1 2 3 7 5 6 4 8 | No shield or bad shield | Sin protección o con protección deficiente | Pas de blindage ou mauvais blindage |

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