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TEMPO NC-100

Tempo Communications NC-100 Professional Wiring Tester

Model: NC-100

Brand: TEMPO

PRODUCT OVERVIEW

The Tempo Communications NC-100 is a versatile digital wiring tester designed for professional use in telecommunications and data networking. This compact device accurately tests shielded twisted pair (STP), unshielded twisted pair (UTP), and coaxial cables, identifying common wiring faults such as shorts, opens, reversed polarity, crossed pairs, and split pairs. It also features a tone generator for efficient cable tracing and troubleshooting.



Front view of the Tempo Communications NC-100 Professional Wiring Tester, showcasing its compact design and display.

SETUP AND INITIAL USE

Before operating your NC-100 tester, ensure a 9V battery is correctly installed. The battery compartment is typically located on the rear of the device. Once the battery is in place, the unit is ready for use. The NC-100 is designed for straightforward operation, allowing technicians to quickly assess cable integrity.



Detailed view of the NC-100 showing its LCD display and the removable remote test unit, which is essential for end-to-end cable testing.

OPERATING INSTRUCTIONS

Cable Testing

The NC-100 can test various cable types. For twisted pair cables (UTP/STP), connect one end of the cable to the RJ45 or RJ12 port on the main unit and the other end to the corresponding port on the removable remote test unit. For coaxial cables, use the F-Type female threaded connectors. The device will then display the wiring configuration and identify any faults.

TEST SHIELDED TWISTED PAIR, UNSHIELDED TWISTED PAIR, AND COAXIAL CABLES



A hand connecting a coaxial cable to the Tempo Communications NC-100, demonstrating its capability to test various cable types.

DETECTS SHORTS, OPENS, REVERSED POLARITY, CROSSED AND SPLIT PAIRS



The NC-100 connected to an RJ45 cable, illustrating its ability to detect shorts, opens, reversed polarity, crossed, and split pairs.

Tone Generation for Tracing

To trace cables, the NC-100 generates three distinct, selectable digital tone patterns at 577 Hz and 983 Hz. Connect the tester to the cable you wish to trace. Use a compatible tone probe (not included) to locate the other end of the cable. The selectable cadences assist in distinguishing between multiple cables.

GENERATES THREE DISTINCT, SELECTABLE DIGITAL TONE PATTERNS



The NC-100 main unit and its remote test unit, demonstrating the setup for generating digital tone patterns for cable tracing.



A close-up of the NC-100's display showing network test results, highlighting its accuracy and ease of use for professional-grade testing.

Official Product Video

This video from Tempo Communications provides an overview of the company's commitment to supplying technicians with reliable tools since 1984, showcasing various products and their application in the field.

MAINTENANCE

To ensure the longevity and accuracy of your NC-100 tester, keep it clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid exposing the device to extreme temperatures or moisture. Replace the 9V battery promptly when the low battery indicator appears to maintain optimal performance. Some users have noted the device's durability over extended periods of use.

TROUBLESHOOTING

- **Frequent Resets:** If the unit resets unexpectedly, ensure the battery is fully charged and securely seated. A weak battery can cause erratic behavior.

- **Inaccurate Readings/Test Fails:** Verify that all cable connections are secure and properly seated in the RJ45, RJ12, or F-Type ports. Loose connections can lead to false readings.
- **Tone Not Audible/Tone Test Aborted:** Check the battery level. If Power over Ethernet (PoE) is present on the line, the tone test may be aborted (indicated by "more than 5V detected"). Disconnect PoE before attempting tone tracing.
- **No Power:** Check the 9V battery. Ensure it is new or fully charged and inserted with correct polarity.

For persistent issues not covered here, please refer to the official Tempo Communications support resources.

SPECIFICATIONS

Model Number	NC-100
Dimensions	150 mm (L) x 70 mm (W) x 33 mm (D) / 8 x 8 x 8 inches
Weight	220 Grams / 7.76 ounces
Power Source	1 x 9V Battery (required)
Frequency Rating	577 Hz, 983 Hz (for tone generation)
Interface Connections	RJ45 Shielded Socket, RJ12 6-Way Socket, F-Type Threaded Female Coaxial Connectors
Cable Types Tested	Twisted Pair (STP/UTP), Coaxial Cables
Fault Detection	Shorts, Opens, Reversed Polarity, Crossed Pairs, Split Pairs

WARRANTY AND SUPPORT

For specific warranty information and technical support regarding your Tempo Communications NC-100, please contact Tempo Communications directly. Details can typically be found on their official website or through the contact information provided with your product packaging. While third-party protection plans may be available, direct manufacturer support is recommended for product-specific inquiries and warranty claims.

Tempo Communications is committed to providing high-quality tools and support to professionals in the field.