

FULL-AUTO DIGITAL ELECTRICAL TESTER TURBOTECH MODEL DT 9903

Safety Information

- Never use the tester if it or its test leads appear damaged.
- Never apply more than 600V DC or 600V AC rms. between any terminal and earth ground.
- When using the probes, keep your fingers behind the finger guards on the probes.
- Turn off power to the circuit under test before cutting, desoldering, or breaking the circuit. Small amounts of current can be dangerous.
- Use caution when working with voltages above 60V dc or 30Vac rms. Such voltages pose a shock hazard.

Automatic Operation

The tester automatically turns on when you make short together for the two test probes or place the probes across a complete circuit.

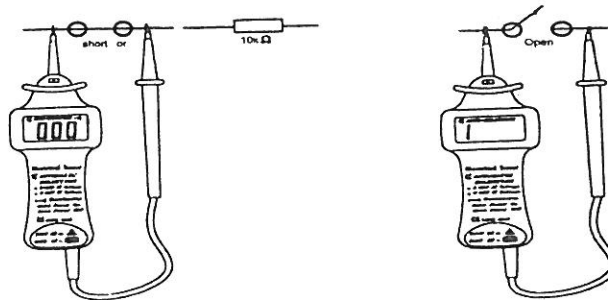
When turned on, the tester powers up in continuity mode. If a dc or ac voltage greater than about 4.0V is present across the inputs, the tester switches to dc or ac voltage mode.

The tester automatically shuts down after approx. 4 minutes of inactivity

Continuity testing

Turn off circuit power before testing.

Beeper indicates shorts lasting 1 ms or longer.



Measuring Voltage

Refer to Automatic Selection

DC Voltage (Volts dc >4.0 V)

AC Voltage (Volts dc > 4.0 V)

600V dc maximum



12V DC

600V ac maximum
50 Hz to 400Hz



220V AC

Specifications

Function	Range	Accuracy (% rdg. + digits)
V AC (50Hz~400Hz)	600V	$\pm(2.9\%+8)$
V DC	600V	$\pm(1.5\%+2)$
Continuity test: Audible threshold 0~10 K Ω , Continuity beeper 2KHz.		
Overload protection: AC/DC 600V		
Dimensions/wt.: 215 X 72 X 36.7mm/235g		

Display: Large 1999 count LCD display with function and high voltage warning indication.

Maximum Voltage Between any Terminal and Earth Ground: 600V dc; 600V ac rms.,

Over-voltage Category III

Safety: Complies with EN61010-1: 1993 for use in over-voltage CAT III environments

EMC Regulations: EN50081-1, EN50082-1

Polarity: Automatic, (-) negative polarity indication.

Over-range: "1" mark indication

Low battery indication: The "BAT" is displayed when the battery voltage drops below the operating level

Measurement rate: 2 times per second, nominal.

Continuity test: Audible threshold 0-10k Ω , Continuity beeper 2KHz

Input Impedance: 400K Ω

Temperature: Operating: -10°C to +50°C (14°F to 122°F), Storage: -30°C to +60°C

Altitude: Operating: 3000m; Storage: 10,000m

Relative Humidity: 90% (0°C-30°C); 75% (30°C-40°C); 45% (40°C-50°C)

Battery Type: AA (2); NEDA 15F or IEC R6

Replacing the Batteries

If the sign "BAT" appears on the LCD display, it indicates that the batteries should be replaced.

Remove screws on the back cover and open the case. Replace the exhausted batteries with new batteries. (AA (2); NEDA 15F or IEC R6)

