

Tool and Appliance Tester



- Complete UL and ANSI testing in less than one minute
- Safeguards tools and appliances against shock hazard
- Reduces downtime and protects against injury and liability
- Maintains compliance with OSHA regulations

DESCRIPTION

The Tool and Appliance Tester combines, in one portable instrument, the three most frequently specified electrical safety tests for tools and appliances. In conformance to UL and ANSI test requirements, the instrument performs test of ground continuity, leakage current, and electrical insulation. It also checks the nameplate current rating of the device.

APPLICATIONS

Poorly maintained electrical tools can become a safety hazard and cause injury to personnel. Testing electrical tools on a regular basis is not only safe practice against costly repairs, but may even reduce liability. Applications for this handy instrument include in-plant OSHA safety surveys and production line, tool room, and repair shop safety checks.

Ground Continuity Check

To check the integrity of the ground circuit between tool and plug, the Tool and Appliance Tester applies a 25-ampere test current to the ground circuit. If the ground circuit resistance exceeds the 0.10-ohm failure threshold, a safety interlock prevents further testing. A bypass switch is provided to allow testing of two-wire and double-insulated devices.

Leakage Test

This test measures the current that would result from the ground conductor being accidentally severed; that is the current to which the operator would be subjected if providing a path to ground at normal line voltage. A switch is provided to select testing at normal or reverse polarity. Measurements from 0 to 10 mA are indicated on a large, 3.5-in. (89 mm) analog meter with sensitivity greater than 0.01 mA. To ensure the accuracy of the meter, a calibration check can be initiated at the push of a button.

Insulation Breakdown (High-Pot) Test

This test measures current through insulation at high voltage to detect weak spots in the insulation that may cause failure in the future. Test voltage up to 3000 volts ac may be applied, with the leakage current trip level adjustable from 0.3 to 12 mA by a front-panel control knob. Visual and audible alarms alert the operation to insulation failure.

Operational Check

The Tool and Appliance Tester also provides an operation check to verify the nameplate current rating of the tool and to determine if maintenance is required. Measurements up to 15 amperes are indicated.

FEATURES AND BENEFITS

- Full conformance to latest UL and ANSI test requirements.
- Meter reading — not just “good/bad” indications.
- Test procedures color-coded in sequence on front panel for ease of use.
- Ground check bypass switch permits testing of two-wire or double-insulated devices.
- Removable lid with metal tray holds device under test.
- Heavy-duty case with carrying strap.
- Front-panel NEMA 5-15 output receptacle, with adapters available to convert to a 20-ampere plug or twist lock up to 30-amperes.

SPECIFICATIONS

Input Power Source

120 V ac ±10%, 60 Hz, 15 A

Ground Check

Failure Threshold: 0.10 Ω

Maximum Test Voltage: 3 V, 60 Hz

Maximum Test Current: 25 A

Leakage Test

Indicates from 0 to 10 mA ac on a 3.5-in. (89-mm) analog scale with 0.01-mA sensitivity

Test Voltage: 120 V ac, 60 Hz

Insulation Breakdown Test

Test Voltage: 0 to 300 V ac, continuously adjustable. Applied voltage indicated on a 3.5-in (89-mm) analog scale.

Maximum Short-circuit Current: 12.6 mA

Leakage Current Trip: Adjustable from 0.3 to 12 mA

Failure Indication: Audible and visual alarms

Operational Test

Indicates from 0 to 15 A ac on a 3.5-in (89-mm) analog scale

Test Voltage: 120 V ac, 60 Hz

Environmental

Operating Temperature Range

50 to 104° F (10 to 40° C)

Storage Temperature Range

-22 to +131° F (-30 to +55° C)

Humidity

5 to 95% RH

Dimensions

10 H x 13.5 W x 10 D in.

(254 H x 343 W x 254 D mm)

Weight

28 lb (12.7 kg)

ORDERING INFORMATION

Item (Qty)	Cat. No.
Tool and Appliance Tester	235303
Included Accessories	
High-voltage lead	
Ground cable	
Instruction manual	
Optional Accessories	
Adapters to convert output for use with twist-lock and 20-ampere plugs	
NEMA L5-15R twist lock	235300-1
NEMA L5-20R twist lock	235300-2
NEMA L-20 R, 20 A	235300-3
NEMTA L-30R twist lock	235300-4

UK
 Archcliffe Road Dover
 CT17 9EN England
 T +44 (0) 1304 502101
 F +44 (0) 1304 207342

UNITED STATES
 4271 Bronze Way
 Dallas TX75237-1088 USA
 T 800 723 2861 (USA only)
 T +1 214 330 3203
 F +1 214 337 3038

OTHER TECHNICAL SALES OFFICES
 Valley Forge USA, Toronto CANADA,
 Mumbai INDIA, Trappes FRANCE,
 Sydney AUSTRALIA, Madrid SPAIN
 and the Kingdom of BAHRAIN.

Registered to ISO 9001:2000 Reg no. Q 09290
 Registered to ISO 14001 Reg no. EMS 61597

TOOL_APPL_TESTER_DS_en_V10

www.megger.com
 Megger is a registered trademark