

Verify the Safety of Your Devices Maintain Integrity and Performance

EST-1
Safety Testing



The **EST-1** Electrical Safety Tester is designed for testing any electrical or medical equipment. It is used to verify that the equipment meets safety and manufacturer specifications. **EST-1** is utilized by:

Biomedical Engineering Departments
Plant Maintenance
Equipment Rental Companies
Independent Service Organizations
Electrical Device Manufacturers
Medical Device Manufacturers

The **EST-1** is lightweight and easy to use. It is portable and is designed to be used for field service, on a test cart and for bench top testing. The Outlet Tester verifies the wiring of the electrical outlet so the outlet and device can be tested at the same time. It also incorporates a Resettable 20 AMP Fuse, which eliminates the need to stock and replace traditional fuses, saving on equipment down time and labor costs. The Power Outlet can be easily changed if replacement is needed to match each country's electrical requirements.

EST-1 Key Features:

- Resettable 20 AMP Fuse
- Outlet Tester
- Quick & Easy Power Outlet Replacement
- Large, Easy To Read Display
- 85-264 Vac Input Range
- Over Voltage Protected Power Input
- Selectable AAMI or IEC Test Loads
- Multiple Power Outlet Options
- Portable & Lightweight
- Line Voltage & Leakage Current
- Load Current Measurement
- Normal and Reverse Polarity Test
- Open Neutral & Open Ground Test
- Half Kelvin Earth Resistance Measurement

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EST-1 Electrical Safety Tester

Technical Specifications

KEY FEATURES

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INPUT POWER

Voltage

85 to 264
Volts AC

Frequency

47 to 440 Hz

Mains current (NO LOAD)

0.30 Amps

Current Rating

20 Amps

LINE VOLTAGE TEST

Range

85 to 264 Volts AC

Accuracy

+/- 2 %+1 Digit

Resolution

1 Volt

LOAD CURRENT TEST

Range

0.00 to 19.99 Amps
(RMS)

Accuracy

+/- 2 %+1 Digit

Resolution

10 Milliamps

LEAKAGE CURRENT AND LEAD TEST

Measurement Type

TRUE RMS

Range

0 to 1999 Microamps

Accuracy

0.1%+1 digit
(DC to 10 Hz)
1%+1 digit
(10Hz to 1KHz)

Resolution

1 Microamp

Input Impedance

1000 Ohms per
IEC601-1,
AAMIESI-1993

Test Load

IEC601-1 and
AAMI
(User Selectable)

EARTH RESISTANCE TEST

Measurement Type

3 Point Half Kelvin

Range

0 to 1999 Milliohms

Accuracy

1%+1 digit

Resolution

0.001 Ohms
(1 Milliohms)

Current Source

1 Amps pulse

PHYSICAL SPECS

Dimensions

6.9" W x 5.1" D
x 3.0 H"

Weight

2.5 lb.

Standard Accessories

US 110V Line cord IEC 60320 C-13 -NEMA 5-15P
Kelvin test lead
Banana-Alligator red test lead.
User Manual

Part Number

EST110
EST1161-3289-0
EST1166-60-2
EST100ECG

Optional Accessories

US 220V Line cord
Banana-Alligator black test lead
Universal outlet adapter(NEMA 6-15P to International)
North American 220Volts outlet
Carry Case

EST82510
EST1166-60-0
EST30250
EST5469-XHGO
ESTCAR