



EST Basic

Cost-efficient solution for electrical safety testing

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The EST Basic electrical safety tester for earth test, flash test (hipot test) and insulation test is the cost-efficient solution for appliances manufactured under the scope of IEC335, EN60335, UL250, UL484 etc.

User-friendly design and excellent memory capabilities

EST Basic is a fully automatic and menu controlled solution which is very easy to operate. It delivers fast and reliable test results offering 10 groups of memories to facilitate testing of up to 10 different product groups in your production line, and it provides 16 steps of test set-up under one group. These steps are carried out by pressing just one button. The status of the test result is easy to monitor through the Pass/Fail alarm.

Safety first

EST Basic uses a safe way to set the trip current and output voltage without having to activate the high voltage or use a load resistor. With its Safety Fault Intercept technology it also detects whether the current is abnormal, and it shuts off the output power if the trip current exceeds the limits. A flashing red LED warns the operator if high voltage is present at output.

Selectable Arc Detection and Controllable Ramp Up Time

EST Basic offers selectable Arc detection from 1 to 40 levels to identify potential product quality failures such as loose screws, bad material insulation etc. Furthermore it controls the ramp up time to prevent the occurrence of spike, which might cause wrong measurements.

Test functions

- Earth test
- Flash test (hipot test)
- Insulation test

Features

- 200VA AC test capacity
- AC/DC withstanding voltage test and insulation resistance test
- 42A earth test
- Arc detection
- Controllable ramp-up time
- Output voltage and current limit can be set without HV output
- Output voltage adjustable during test period
- Remote control for Start, Reset, and Test result output
- Automatic fail indicator of alarm lamp and buzzer
- RS-232C interface
- Test cables for rough industrial environment

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Technical Specifications EST Basic

Supply voltage	AC100V, 120V, 220V, 230V ±10% 50/60Hz
Power consumption	620W
Design	Stand alone unit with optional 19" rack adaption kit
Display	2 x 24 character alphanumeric Backlight yellow/green
Keyboard	On/off switch and 8 keys for navigating and programming. One function wheel for incrementing/decrementing values
Weight	Approx. 15 kg
Dimensions	330(w), 149(h), 446(d)
Earth test	Voltage: Max 8V (DC) Current range: 3 – 42A Resolution: 0.02A Accuracy: 1% of reading + 50mA GB Res test: 0-620mΩ Resolution: 0-620mΩ (100μΩ) Accuracy: 1% of reading + 2mΩ Method: Four Terminals mode
Flash test (AC Hi-Pot test)	Voltage: 100 – 5000VAC Resolution: 5V Max current: 40mA above 500V Limit: 0.1 – 40mA, 0.02mA resolution Accuracy: 1% of reading + 50μA
DC Hi-Pot test	Voltage: 100 – 6000VDC Resolution: 5V Max current: 10mA above 500V Limit: 0.1 – 10mA, 0.01mA resolution Accuracy: 1% of reading + 50μA
Insulation Resistance	DC Voltage: 50V/100V/500V/1000V Resistance range: 1-9900MΩ (500V, 1000V); 1-2000M (50V, 100V) Accuracy (50V/100V): 1-50MΩ, 5% of reading. 51-200MΩ, 10% of reading, 201-1990MΩ, 20% of reading Accuracy (500V/1000V): 1-500MΩ, 5% of reading. 501-2000MΩ, 10% of reading, 2001-9990MΩ, 20% of reading
ARC detect	40 level (1-40mA)
Interfaces	RS232C 1 x outlet plug for test object 1 x outlet plug for earth test probe
Calibration	Instruction manual available
Accessories	Power cord Test lead