

1-800-547-5740 • Fax: (503) 643-6322

www.ueitest.com • email: info@ueitest.com

Introduction

Use the ECT600P to perform quick checks of AC Volts, DC Volts, Continuity and 3 Phase sequence. LED's indicate Voltage level and DC polarity, tone provides audible indication of Continuity.

Features include

- AC Volts 12 to 600
- DC Volts 12 to 600
- Phase Indication of 3 phase AC
- Continuity
- Worklight
- One year limited warranty

Safety Notes

- Never use the tester if it or the test leads appear damaged.
- Never apply more than 600V DC or 600V AC rms. between any terminal and earth ground.
- ⚠ Indicates dangerous voltage present at the terminals if the LED turns on.
- When using the probes, do not touch the metal probe tips.
- Disconnect the live test lead before disconnecting the common test lead.
- Do not test in wet locations.
- Before each use, verify the tester's operation by measuring a known voltage.

Operating Instructions

Automatic Operation

The tester automatically turns on when you place the probes across a complete circuit. The tester selects continuity or DC or AC voltage mode based on the resistance or voltage between the probes. The tester automatically turns off when you remove the probes from the complete circuit.

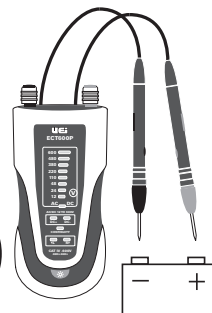
Measuring Voltage

Connect test leads across the source or load under measurement. The LED's turn on at between 70% and 100% of their rated voltages.

Polarity of red test lead is indicated by LED.

DC Voltage
 600V DC maximum

LED's will indicate voltage level



Limited Warranty

The ECT600P is warranted to be free from defects in materials and workmanship for a period of one year from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss. A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

Attn: UEi Service
8030 SW Nimbus Ave.
Beaverton, OR 97008

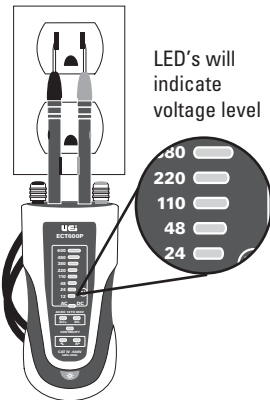
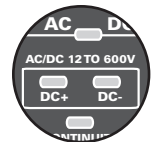
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This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

AC Voltage

600V rms. maximum
45 Hz to 66 Hz.

Both DC+ and DC-
light to indicate AC
Voltage.

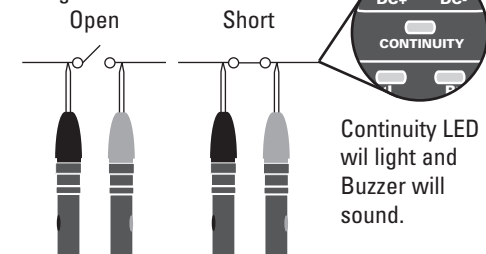


LED's will
indicate
voltage level

80
220
110
48
24

Continuity

Turn off circuit power before testing.
Beeper indicates shorts lasting 1 ms
or longer.

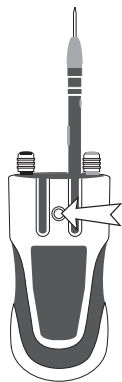


Continuity LED
will light and
Buzzer will
sound.

Live Wire Test

Using only the positive probe, connect
the test lead to the wire and
touch the button on the back side
of the meter. If voltage is present
buzzer will sound and LED's will
light

*NOTE: This test only indicated
voltage is present and not the
voltage level.*



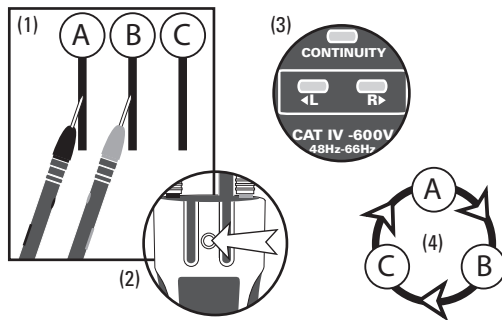
Phase Sequence Test

Label the three lines A, B and C.

- (1) Connect black lead to A, and red lead to B.
- (2) Touch metal contact on the rear of the ECT600P
- (3) Note the LED indication. "◀L" indicates the phase is B then A. "▶R" indicates A then B.
- Connect the black lead to B and red lead to C
- Touch the metal contact on the rear of the ECT600P
- Note the LED indication. "◀L" indicates the phase is C then B. "▶R" indicates B then C.

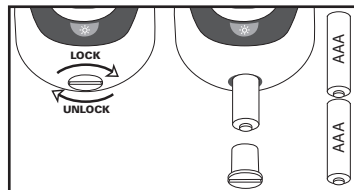
Example: If when connected to "A" and "B" results in "▶R", and then connected to "B" and "C" results in "▶R", then the phase is "A" ▶ "B" ▶ "C". (4)

*Note: The LED indication is referring to the phase
sequence from the red test lead to the black test lead
when touching the metal contact on the rear of the
ECT600P.*



Battery Test and Replacement

Replace the batteries when touching the leads
together no longer turns on the continuity LED.
To replace batteries remove plug at the bottom of
the ECT600P with a standard screwdriver or coin.



Remove spent
batteries and
insert 2 AAA
batteries with
correct
polarity.
(shown)

Worklight

To turn on worklight press and hold the "☀️"
Button.

Cleaning

Wipe case with damp (not wet) cloth and dry.
Wait 8 hours after cleaning before use.
DO NOT use acid or solvent.

Specifications

Function	Range	Accuracy
AC Voltage (V)	12, 24, 48, 110, 220, 380, 480, 600	-30% to 0% of reading
DC Voltage (V)	12, 24, 48, 110, 220, 380, 480, 600	-30% to 0% of reading
Continuity Test	Audible threshold 0 - 100kΩ, Continuity beeper 2KHz	
Phase Sequence Test	Voltage Range 100-600V Frequency Range 50-400Hz	
Maximum Voltage	Between any terminal and earth ground: 600V DC, 600V AC rms, overvoltage category III	
Input Impedance	1MΩ	
Battery Type and Life	(2) "AAA"	
Safety	Complies with IEC1010-1, IEC61243-3, IEC1010-31, IEC60529 (IP64), cETLus, 600V CATIII.	