

KOBALT



ITEM #2545081
4-Way AC/DC Voltage Tester
MODEL #ET-21

Español p.2

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ATTACH YOUR RECEIPT HERE

Serial Number _____ Purchase Date _____

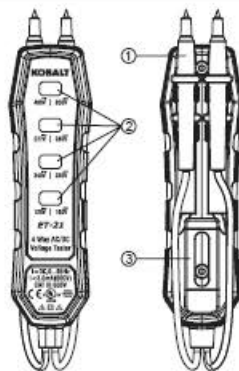
Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-888-356-2258), 8 a.m. - 8 p.m., EST, Monday - Sunday. You may also contact us anytime at www.lowes.com

RR20207

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS	
Voltage Range	120, 240, 277, 480V AC 160, 330, 380, 600V DC
Frequency Range	0-65Hz
Test Current	<3.5 mA
Operation Time	30 seconds
Recovery Time	4 minutes
Operating Environment	32°F to 104°F (0°C to 40°C) at <80% relative humidity
Storage Environment	14°F to 140°F (-10°C to 60°C) at <80% relative humidity
Operating Altitude	7000ft (2000m) maximum
Net Weight	Approx. 0.13lb (58g)
Dimension	Approx. 5.4x1.3x1.0in (138x33x25mm)
Safety	Complies with UL 61010-1 for measurement Category III 600V, Pollution Degree 2

PACKAGE CONTENTS



PART	DESCRIPTION
1	Test probes
2	Neon lights for voltage indication
3	Pocket clip

Symbols

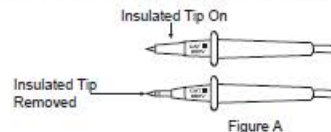
PART	DESCRIPTION
	Potential danger. Indicates the user must refer to the manual for important safety information.
	Indicates hazardous voltages may be present
	Equipment is protected by double or reinforced insulation
	Volts
	AC voltage
	DC voltage

Safety Category Ratings

CATEGORY RATING	BRIEF DESCRIPTION	TYPICAL APPLICATIONS
CAT II	Single phase receptacles and connected loads	- Household appliances, power tools - Outlets more than 30ft (10m) from a CAT III source - Outlets more than 60ft (20m) from a CAT IV source
CAT III	Three phase circuits and single phase lighting circuits in commercial buildings	- Equipment in fixed installations such as 3-phase motors, switchgear and distribution panels - Lighting circuits in commercial buildings - Feeder lines in industrial plants - Any device or branch circuit that is close to a CAT III source

The measurement category (CAT) rating and voltage rating is determined by a combination of the meter, test probes and any accessories connected to the meter and test probes. The combination rating is the LOWEST of any individual component.

WARNING: Operation is limited to CAT II applications when the insulated tips are removed from one or both test probes. Refer to Input Limits section of this manual for maximum voltage ratings.



SAFETY INFORMATION

WARNINGS

- Please read and understand this entire manual before using this product.
- Verify operation before using tester by checking a known live voltage.
- Use caution on live circuits. Voltages above 30V AC RMS, 42V AC peak, or 60V DC pose a shock hazard.
- Keep fingers away from the metal probe tips when testing voltage.
- Comply with all safety codes. Use approved personal protective equipment when working near live electrical circuits - particularly with regard to arc-flash potential.
- Do not use tester or test leads if they appear damaged.
- Do not use the tester near explosive vapors, dust or gasses.
- Do not use the tester in wet or damp environments or during electrical storms.
- Do not use the tester if it operates incorrectly. Protection may be compromised.
- Do not apply voltage or current that exceeds the tester's maximum rated input limit.

PRODUCT COMPLIANCE



Users of this product are cautioned not to make modifications or changes. Doing so may void the compliance of this product with applicable laws and regulatory requirements and may result in the loss of the user's authority to operate the equipment.

"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

"CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

OPERATING INSTRUCTIONS

WARNING: Observe all safety precautions when working on live voltages. The tester does not detect potentially hazardous voltages below 120V AC/180V DC.

- Carefully touch the test probes to the electrical contacts or the circuit being tested.
- The neon lights will indicate the voltage. The brightness will increase as the voltage increases. Use the highest illuminated range for the correct voltage.
- For testing outlets, refer to Figure A for removal of insulated tips. (Place tips back onto test probes after testing outlet.)
- Snap the test probes into the holder on the back of the tester (Figure B). This allows one hand operation when inserting the probes into the outlet.



Figure B

CARE AND MAINTENANCE

- Keep the tester dry. If it gets wet, wipe it off.
- Keep the tester clean. Wipe the dirt with a soft cloth dampened with water. Do not use chemicals, cleaning solvents, or detergents.
- Handle the tester gently and carefully. Dropping it can damage the electronic parts or the case.
- Use and store the tester in normal temperatures. Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Neon lights provide no indication	1. Neon light damaged 2. Test lead damaged	Replace tester

WARRANTY

Three-year warranty. Incidental or consequential damages are excluded from this warranty.

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