

**KLEIN  
TOOLS**

**ET310 Digital  
Circuit Breaker  
Finder**



# Klein Tools ET310 Digital Circuit Breaker Finder INSTRUCTION MANUAL

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**Klein Tools ET310 Digital Circuit Breaker Finder**



## GENERAL SPECIFICATIONS

The Klein Tools ET310 is a digital circuit breaker finder used to locate the correct circuit breaker in a panel to which an electrical outlet or fixture is connected. The transmitter is connected to the electrical outlet or fixture in the circuit while the receiver is used to scan the breakers in the circuit breaker panel.

- **Operating Voltage:** 90V to 120V AC, 50/60Hz
- **Operating Altitude:** 6562 ft. (2000m)
- **Relative Humidity:** <90% non-condensing
- **Operating Temp:** 32° to 122°F (0° to 50°C)
- **Storage Temp:** -4° to 122°F (-20° to 50°C)
- **Dimensions (transmitter docked in receiver):** 10.96" x 2.16" x 1.39" (278 x 55 x 35 mm)
- **Weight (transmitter, receiver, and batteries):** 7.2 oz. (204 g)
- **Battery (receiver):** 1 x 9V Alkaline (included)
- **Auto-Power Off (receiver):** Following 3 minutes of inactivity
- **Standards:**








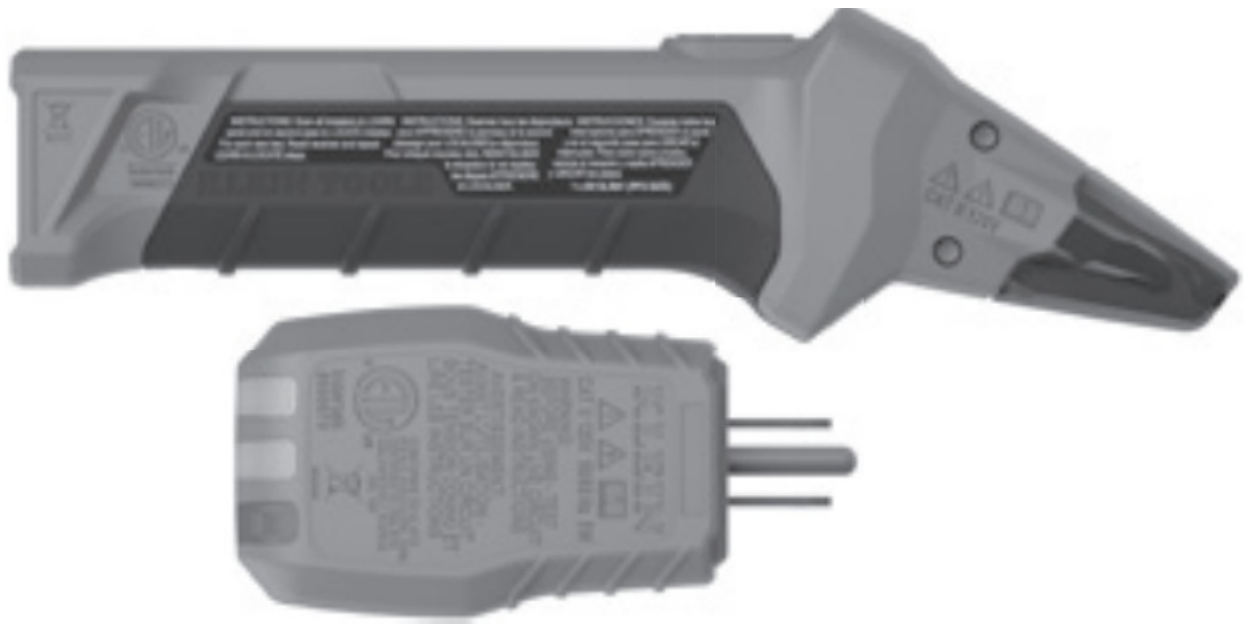
- Intertek **Conforms to:** UL STD 61010-1, 61010-2-030 1436.
- **Certified to:** CSA STD C22.2 # 61010-1, 61010-2-030, 160.

- **Drop Protection:** 6.6 ft. (2m)
- **Ingress Protection:** IP40 dust resistant
- **Pollution Degree:** 2

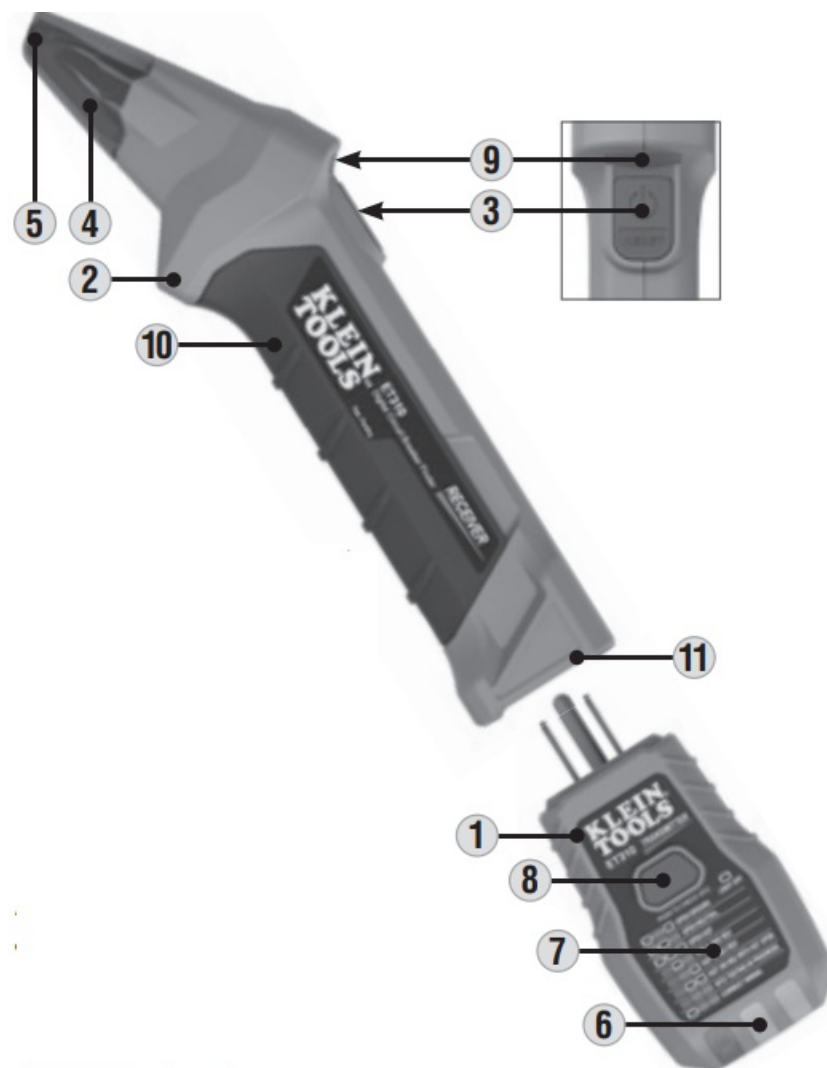
Specifications are subject to change.

## SYMBOLS ON THE BACK OF THE TESTER

-  Risk of electric shock
-  Intertek This product has been independently tested by Intertek and meets the applicable
-  Warning or Caution published standards.
-  Read Instructions
-  WEEE – Battery disposal

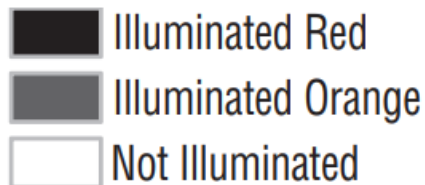


## FEATURE DETAILS



1. Transmitter
2. Receiver
3. Power On/Off/Reset Button
4. Power On Indicator
5. Sensing Tip
6. Wiring Condition Indicators
7. Wiring Condition Codes
8. GFCI Test Button
9. Circuit Status Indicator
10. Battery Door
11. Transmitter Docking Receptacle

**NOTE:** There are no userserviceable parts inside.

**FIG. 1**

INDICATORS			CONDITION INDICATED
	■		Open Ground
		■	Open Neutral
			Open Hot
■		■	Hot & Ground Reversed
■	■		Hot & Neutral Reversed
■			Hot On Neutral with Open Hot
■	■	■	GFCI Testing in Progress
	■	■	Correct Wiring

## WARNINGS

To ensure safe operation and service of the meter, follow these instructions. Failure to observe these warnings can result in severe injury or death.

- Failure to follow instructions could result in death or serious injury.
- Prior to use, always verify tester operation by testing on a known live and correctly wired electrical outlet.
- DO NOT use if the tester appears damaged in any way.
- The tester is intended for indoor use only.
- The tester is designed for use with 120V AC electrical systems. DO NOT connect to higher voltage electrical supplies.
- Other equipment or devices attached to the circuit being tested could interfere with the tester, clear the circuit before testing.
- This tester only detects common wiring problems. Always consult a qualified electrician to resolve wiring problems.
- If using accessories to connect to bare wires ensure that the circuit is not energized before inspecting, applying, or removing the transmitter.
- Exercise extreme caution around energized, bare wires, especially when working in or around an open breaker panel.

## OPERATING INSTRUCTIONS

### POWER ON/OFF

Press the Power button 3 to power on the receiver 2, and press and hold the Power button 3 to power off the receiver. A green indicator 4 illuminated in the Sensing Tip 5 and a pulsing audible beep indicates that the unit is powered ON. The receiver will automatically power off following 3 minutes of inactivity. Transmitter 1 is powered by the circuit when inserted into an energized electrical outlet.

### WIRING CONDITION

Before using this tester, always verify proper operation by testing the transmitter on a known energized and correctly wired electrical outlet.

Insert transmitter 1 into the electrical outlet being tested and compare the illuminated wiring condition indicator 6 with the wiring condition code 7 printed on the transmitter (FIG. 1).

If the tester indicates that the outlet is not wired correctly, consult a qualified electrician.

**NOTE:** Conditions NOT indicated include but are not limited to quality of ground, multiple hot wires, reversal of neutral and ground conductors, dual open ground and neutral, and other combinations of defects.



**NOTE:** All appliances or equipment on the circuit being tested should be unplugged to help reduce the possibility of erroneous readings. GFCI TEST

**NOTE:** Check the GFCI device's user manual for information on how the specific device operates prior to using this tester.

**NOTE:** All appliances or equipment on the circuit being tested should be unplugged to help reduce the possibility of erroneous readings.

**NOTE:** Not designed for testing 30mA ground-fault devices.

Insert the transmitter into the electrical outlet and note the wiring conditions 6 & 7.

If the tester indicates that the outlet is not wired correctly, DO NOT attempt to test the GFCI device. Consult a qualified electrician. Press the GFCI button 8 on the transmitter 1 to test the GFCI device.

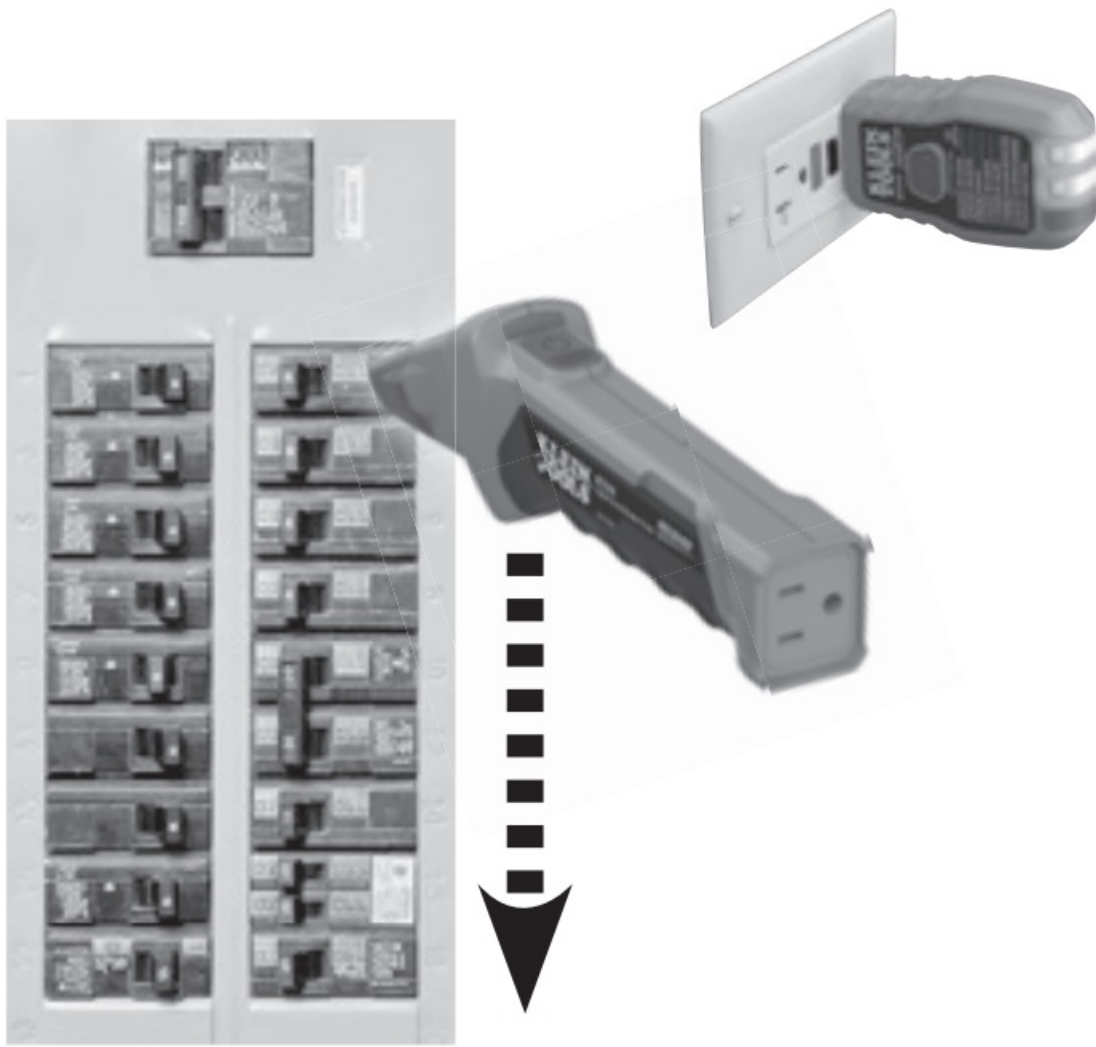
#### Following the test:

- If the GFCI device tripped, de-energizing the circuit, the wiring condition indicator 6 will all be off (Open Hot). Reset the GFCI device by pressing its reset button. After reset, the transmitter should indicate Correctly Wired 6 & 7. The GFCI device appears to be functioning correctly.
- If the circuit remains Energized, the GFCI device didn't trip, indicating that it may be incorrectly wired, may not be installed correctly, or may not be functioning correctly. Consult a qualified electrician.

#### FINDING CIRCUIT BREAKERS

Insert the transmitter 1 into the electrical outlet and note the Wiring Condition 6 & 7. If the transmitter indicates that the outlet is energized and correctly wired, prepare to scan the breakers in the breaker panel with the receiver 2. If the tester indicates that the outlet is not wired correctly, cease testing and consult a qualified electrician. Power ON the receiver. Before approaching the electrical panel, push the Power On/Off/Reset button 3 once to reset the receiver. Position the receiver so that the sensing tip 5 is oriented perpendicular to the breakers in the panel. Slowly scan all breakers in the panel once, ignoring any audible or visual indications as the receiver is learning the panel. Scan all breakers a second time. When the breaker connected to the circuit with the transmitter is approached, the frequency of the audible beeps will increase. When located, the audible beep will sound continuously, the circuit status indicator will illuminate red 9, and the green indicator in the sensing tip 4 will turn off, indicating that the correct breaker has been found.

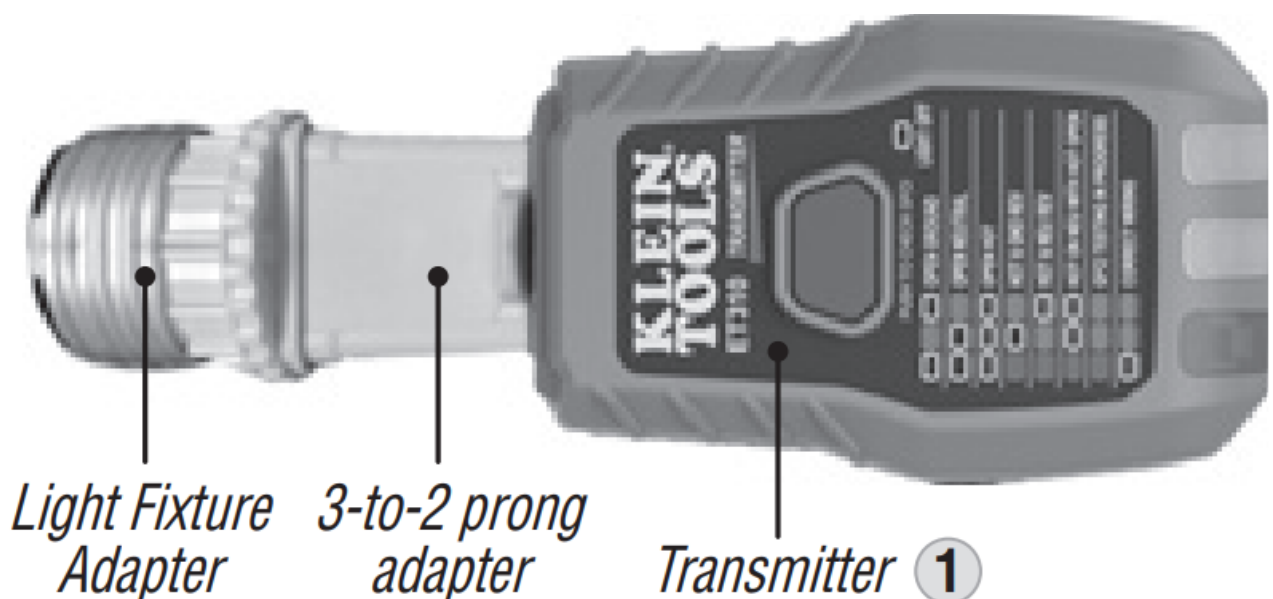
**NOTE:** Resetting the receiver erases prior scanning data stored from a previously 'learned' panel. Always reset the receiver away from the electrical panel to ensure that electrical signals are not being sensed during the reset operation.



## CONNECTING TO OTHER FIXTURES USING OPTIONAL ACCESSORIES (CAT. NO. 69411)

### LIGHT SOCKET FIXTURES

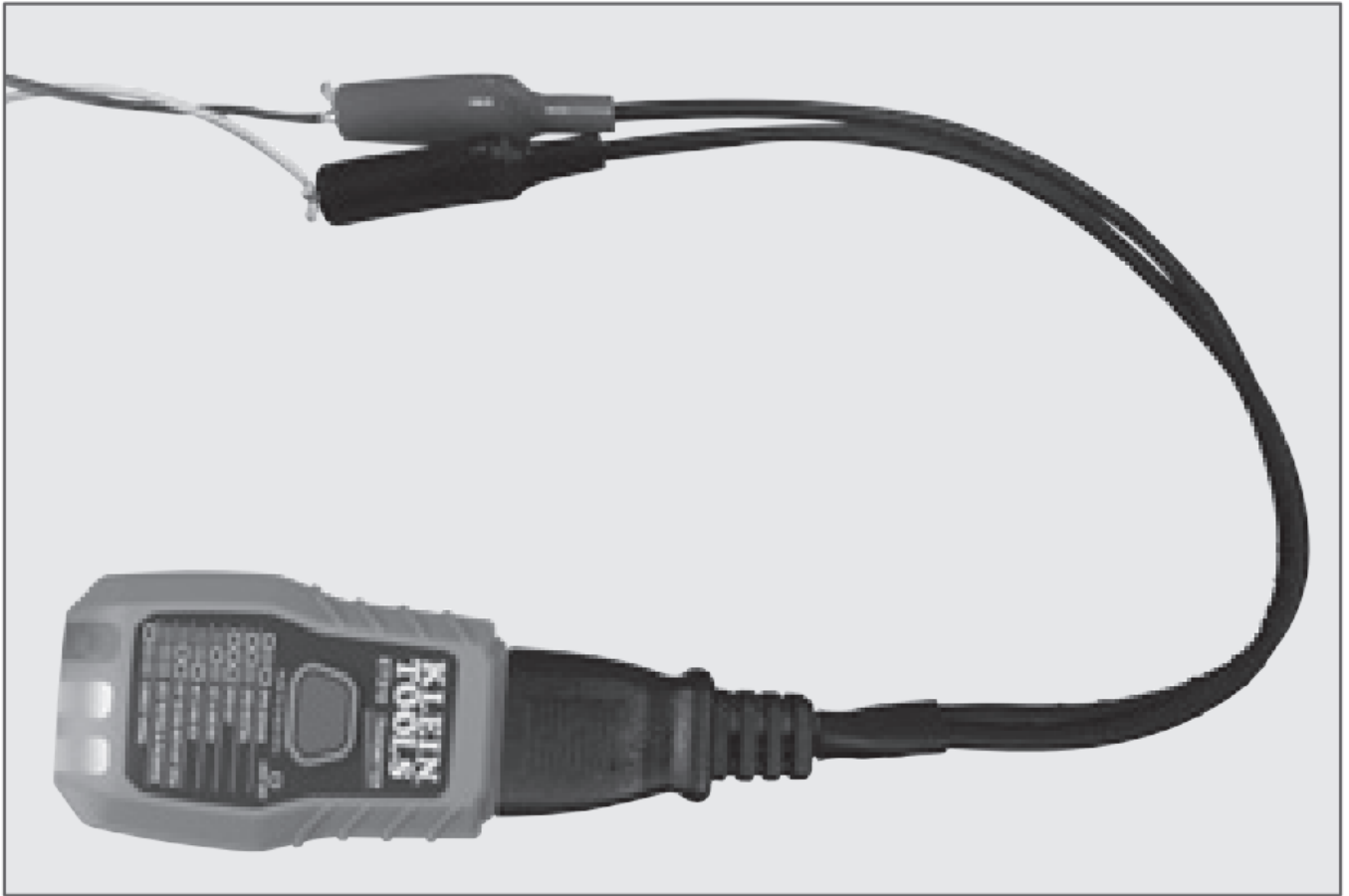
Screw the light fixture adapter into an empty light socket. Connect the transmitter 1 to the 3-to-2 prong adapter, and connect this to the light fixture adapter. The indicators on the transmitter will communicate an open ground wiring condition if the light socket is energized. Follow the instructions in the FINDING CIRCUIT BREAKERS section to find the correct circuit breaker.



### BARE WIRES

The transmitter may be connected to bare wires using the outlet-to-alligator clips wire adapter. Carefully attach the

alligator clips the correct wires. Insert the transmitter into the outlet on the wire adapter. The indicators on the transmitter will communicate an open-ground wiring condition if the wires are energized. Follow the instructions in the FINDING CIRCUIT BREAKERS section to find the correct circuit breaker. Exercise extreme caution when working around energized bare wires.



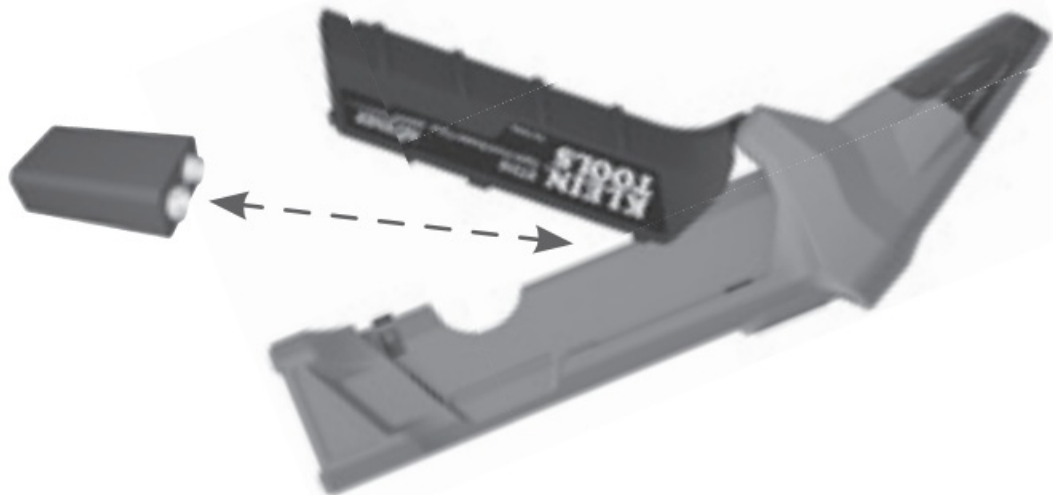
## **MAINTENANCE**

### **BATTERY REPLACEMENT**

When the Power-On indicator 4 blinks, the battery must be replaced.

1. Open the battery compartment door 10 by unscrewing the locking screw.
2. Remove the exhausted 9V battery and dispose of it appropriately.
3. Replace the 9V battery, close the battery door, and re-fasten the locking screw.





### **CLEANING**

Be sure unit is turned off and wipe with a clean, dry lint-free cloth. Do not use abrasive cleaners or solvents. Take care to keep the sensor lens clean at all times. If required, loose debris may be removed from lens using clean compressed air. Lens may also be cleaned using a soft cloth or cotton swab with water or rubbing alcohol only. Lens must be allowed to completely dry prior to use.

### **STORAGE**

The transmitter 1 may be docked in the transmitter receptacle 11 in the receiver 2 for convenient storage. Remove the batteries when the tester will not be used for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the tester to return to normal operating conditions before using.

### **WARRANTY**

[www.kleintools.com/warranty](http://www.kleintools.com/warranty)

### **DISPOSAL / RECYCLE**

Do not place equipment and its accessories in the trash. Items must be properly disposed of by local regulations. Please see [www.epa.gov](http://www.epa.gov) or [www.ecycle.org](http://www.ecycle.org) for additional information.

### **CUSTOMER SERVICE**

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### **FAQs**

Klein Tools ET310 Digital Circuit Breaker Finder INSTRUCTION MANUAL

The Klein Tools ET310 is designed to quickly and accurately identify circuit breakers, simplifying electrical troubleshooting and ensuring safety.

How does the two-part system of the Klein Tools ET310 work?

The Klein Tools ET310 includes a transmitter that connects to an outlet or fixture and a receiver that scans the panel to locate the correct breaker.

What voltage range is compatible with the Klein Tools ET310?

The Klein Tools ET310 is compatible with 90-120V AC circuits, making it suitable for residential and commercial systems.

What kind of alerts does the Klein Tools ET310 provide for breaker identification?

The Klein Tools ET310 offers visual and audible cues on the receiver, ensuring clear and accurate breaker identification.

What materials are used in the construction of the Klein Tools ET310?

The Klein Tools ET310 is made with durable PC and PC-ABS housing, ensuring it withstands demanding environments.

Can the Klein Tools ET310 test circuits other than circuit breakers?

While its primary function is circuit breaker identification, the Klein Tools ET310's GFCI tester allows it to check wiring and GFCI devices.

What is the weight of the Klein Tools ET310 Digital Circuit Breaker Finder?

The Klein Tools ET310 weighs 7.2 ounces, making it lightweight and easy to handle during use.

What is the dimension of the Klein Tools ET310?

The Klein Tools ET310 measures 10.96 x 2.16 x 1.39 inches, making it compact and convenient for storage and transport.

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## References

- User Manual



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