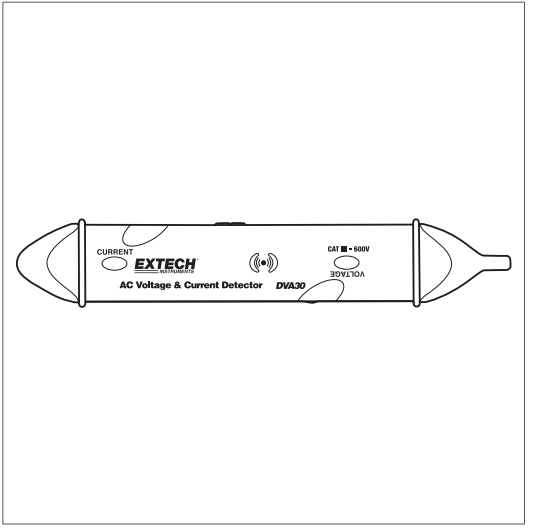
EXTECH

USER MANUAL

AC Voltage and Current Detector

MODEL DVA30



User Manual (en)

INTRODUCTION

Congratulations on your purchase of the Extech DVA30. This instrument is shipped fully tested and calibrated and, with proper use, will provide years of reliable service. Please visit our website (www.extech.com) to check for the latest version of this User Manual, Product Updates, and Customer Support.

FEATURES

- Non-Contact Voltage Detection
- Non-Contact Current Detection
- Identify live conductors and terminals
- Trace current carrying conductors behind walls and in conduit
- Locate hidden wires
- Sensitivity adjustment

SAFETY

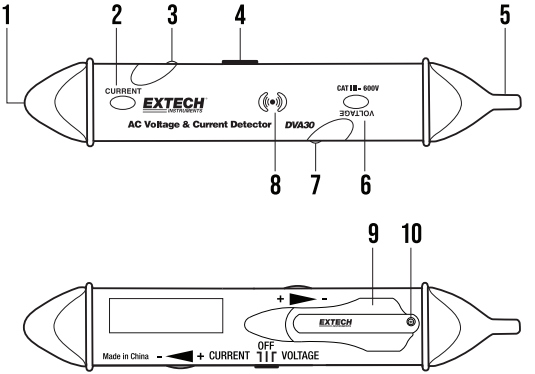
International Safety Symbols

	This symbol, adjacent to another symbol or terminal, indicates that the user must refer to the manual for further information.
	This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present.

Safety Precautions

- Improper use of this meter can cause damage, shock, injury or death. Read and understand this manual before use.
- Secure any covers or battery doors before use.
- Inspect the condition of the meter for any damage before use.
- Remove the batteries from the meter if the meter is to be stored for long periods.

DESCRIPTION



1. Current sensor and detection LED
2. Current detector “ON” LED
3. Current detector sensitivity adjustment
4. Current/Voltage/OFF selector switch
5. Voltage sensor and detection LED
6. Voltage detector “ON” LED
7. Voltage detector sensitivity adjustment
8. Audible beeper
9. Battery compartment and pocket clip
10. Compartment screw

OPERATION

WARNING!

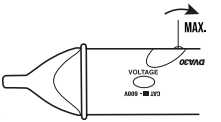
Risk of Electrocution. Before use, always test the detector on a known live circuit to verify proper operation.

Radio Frequency Interference Note

In the voltage mode, radio frequency (RF) signals near the detector may cause the meter to produce a constant tone and light indication. Wait until the RF signal has switched off before proceeding with voltage detection.

Voltage Detection

1. Slide the function switch to the Voltage position.
2. The “VOLTAGE” LED will light. If the LED is dim or does not light, replace the batteries.



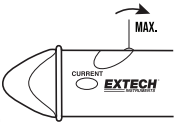
3. Set the sensitivity adjustment to maximum.
4. If the detector begins to beep and flash, slowly reduce the sensitivity until the beeping and flashing stops.
5. Touch the detector voltage sensor to the hot (live) conductor or insert it into the hot side of the electrical outlet.
6. If AC voltage is present, the detector light will flash, and the audible beeper will sound.
7. Adjust the sensitivity as needed to locate and identify the live conductor.

Current Detection

NOTE

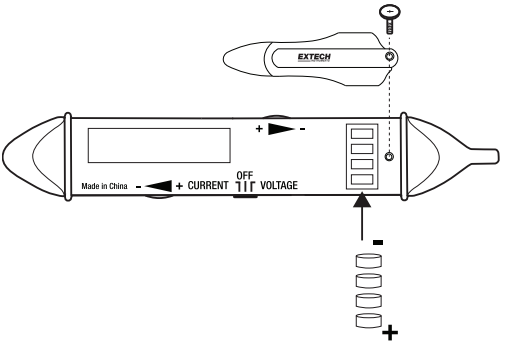
There must be a load on the circuit (current flow) for the current detection function to work.

1. Slide the function switch to the Current position.
2. The “CURRENT” LED will light. If the LED is dim or does not light, replace the batteries.



3. Set the sensitivity adjustment to maximum.
4. If detector begins to beep and flash, slowly reduce the sensitivity until the beeping and flashing stops.
5. Move the detector current sensor near the current carrying conductor until the current tip flashes and the beeper sounds.
6. Slowly reduce the sensitivity, and reduce the distance between the sensor and conductor, to locate and identify the conductor.

BATTERY REPLACEMENT



1. Switch OFF power.
2. Remove the battery compartment screw and remove the compartment cover.
3. Replace the four LR44 batteries. The negative sides of the batteries face in the same direction, as shown. The positive sides of the batteries face in the opposite direction.
4. Secure the battery compartment before using the detector.

Do not dispose of used batteries or rechargeable batteries in household waste.

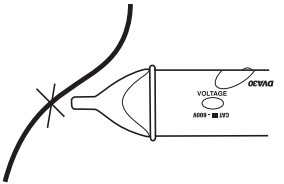
Battery Safety

- Please dispose of batteries responsibly; observe all local, state, and national regulations.
- Never dispose of batteries in a fire; batteries may explode or leak.
- Never mix battery types; install new batteries of the same type.

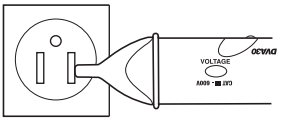
TYPICAL APPLICATIONS

Voltage

Locate breaks in wires

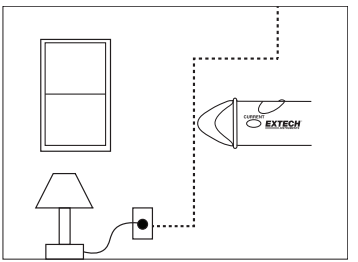


Identify live terminal and polarity

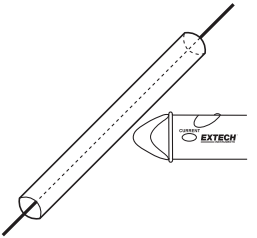


Current

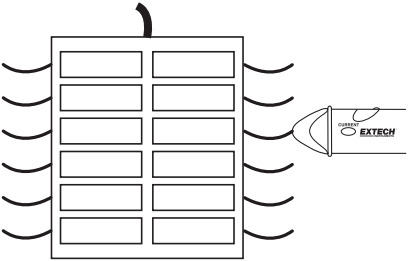
Trace current behind walls



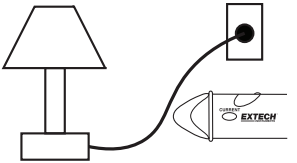
Detect current through conduit or shielding



Compare current on branch circuits



Monitor current to appliances



SPECIFICATIONS

Voltage detection	12 V to 600 V AC
Current sensitivity	200 mA (0.2 A) AC at 0.2 in. (5 mm)
Audible alert	Beeper (Voltage and Current)
Visible indication	Flashing LED (Voltage and Current)
Frequency range	50 to 500 Hz
Operating Temperature	14 to 122°F (-10 to 50°C)
Operating Humidity	< 80% RH
Altitude	< 6562 ft. (2000 m)
Power supply	(4) LR44 batteries or equivalent
Weight	60 g (2.1 oz.)
Dimensions	7.6 x 1.2 x 0.9 in. (192 x 31 x 24 mm)
Voltage rating	Category III 600 V
Regulatory compliance	IEC 61010-1, 61010-031 Conforms to UL STD 1436
Indoor use only	

CUSTOMER SUPPORT

Customer Support Local Telephone List:

https://support.flir.com/contact

Returns (RMA):

https://customer.flir.com/Home

WARRANTY

Teledyne FLIR warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from date of shipment. To view the full warranty text, please visit the support site, link below.

https://www.flir.com/support-center/warranty/

EXTECH

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Website
http://www.flir.com

Customer support
http://support.flir.com

Disclaimer
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