

#### WARRANTY

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website at www.extech.com (click on 'Contact Extech' and go to 'Service Department' to request an RA number). A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

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## 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

- 1. Improper use of this meter can cause damage, shock, injury or death. Read and understand this manual before use.
- 2. Secure any covers or battery doors before use.
- 3. 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.

### **Tester Description**

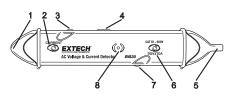
- 1. Current Sensor and LED
- 2. Current Detector "ON" LED
- Current Detector Sensitivity adjustment
- 4. Current/Voltage/OFF function selector switch
- 5. Voltage Sensor and LED
- 6. Voltage Detector "ON" LED
- 7. Voltage Detector Sensitivity adjustment
- 8. Audible beeper

# Specifications

Voltage detection Current sensitivity Audible indication Visible indication Frequency range Operating Temperature Operating Humidity Altitude Power supply Weight Dimensions IEC 1010 Indoor use 12V to 600VAC 200mA (0.2A) AC at 0.2" Beeper (Voltage & Current) Flashing LED (Voltage & Current) 50 to 500Hz 14 to 122°F (-10°C to 50°C) < 80% RH < 2000m (4) LR44 batteries or equivalent 2.1 oz. (60g) 7.6 x 1.2 x 0.9" (192x31x24mm) Category III 600V

#### Support Hotline (781) 890-7440

Tech support: Ext. 200; Email: support@extech.com Repair/Returns: Ext. 210; Email: repair@extech.com Website: www.extech.com



DVA30 V2.0 06/07

# Operation

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

**NOTE on RF Interference:** In the voltage mode, RF signals in close proximity to the detector may cause the voltage light and beeper to latch into a constant tone and light indication. Wait until the RF signal has disappeared 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 max.
- 4. If the detector begins to beep/flash, slowly turn the sensitivity down until the beep/flash stops.
- 5. Touch the detector voltage sensor to the hot conductor or insert 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 zero-in and identify the live conductor.

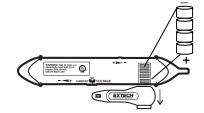
## **CURRENT DETECTION**

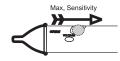
NOTE: There must be a load on the circuit (current flow) for the current detection function to work.

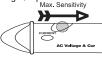
- 1. Slide the Function switch to the Current position.
- 2. The "CURRENT" LED will light. If the LED is dim or does not light, replace the batteries.
- 3. Set the Sensitivity adjustment to the max position
- 4. If detector begins to beep/flash, slowly turn the sensitivity down until the beep/flash stops.
- Move the detector current sensor near the current carrying conductor until the current tip flashes and beeper sounds.
- 6. Slowly reduce the sensitivity and reduce the distance between the sensor and conductor to zero-in and identify the conductor.

## BATTERY REPLACEMENT

- 1. Turn power OFF
- Slide the pocket clip off (as shown) to access batteries.
- 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.



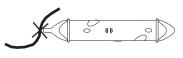


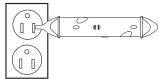


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# **Typical Applications**

# VOLTAGE

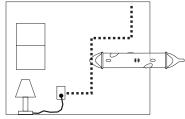




Locate breaks in wires

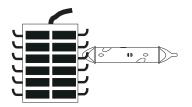
Identify hot terminal and polarity

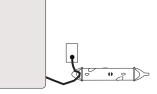
# CURRENT



Trace current flow behind walls

Detect current flow through conduit or shielding





Compare current flow on branch circuits

Check/Monitor current flow to appliances