

USER MANUAL

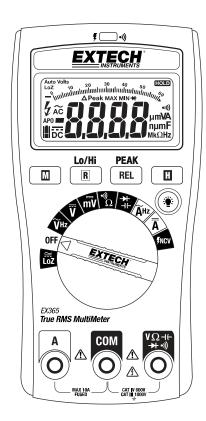
True RMS Digital Multimeters

EX360 Series

EX360 True RMS Digital Multimeter

EX363 True RMS DMM with Temperature and μA AC/DC

EX365 True RMS DMM with 10A AC/DC Current



Additional User Manual Translations available at www.extech.com

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1. Introduction

Thank you for selecting the Extech EX360 Series Meter.

The EX360 Series are feature-packed True RMS digital multimeters. In addition to standard DMM features, they offer a Low Impedance (Lo Z) mode, Smart Data Hold, Automatic AC/DC voltage Detect mode, Backlit LCD, and a Non-Contact Voltage Detector that senses electrical sources safely.

This device 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 Guide, Product Updates, Product Registration, and Customer Support.

Features

E CAT IV 600V / CAT III 1000V

6000 count digital display and 60 segment analog bar graph display
Large backlit LED display
True RMS ACV measurements
Lo Z mode (with Auto AC/DC Voltage detect) protects readings from ghost voltages
Auto and Manual Range modes
0.5% DCV accuracy
Smart Data Hold
Peak Hold
Relative mode
Auto Power OFF (APO) with disable function
Temperature measurements (Model EX363 only) with included temperature probe
AC/DC μA function (Model EX363 only)
10A AC/DC current measurements with 11A/1000V high energy fuse (EX365 only)
Non-Contact Voltage Detector
Visual and audible continuity measurement alert
Segmented low battery indicator
Includes holster with probe holder, tilt stand, type K temperature probe (EX363), magnetic hanger, and 9V battery.

2. Safety Information

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

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WARNINGS

WARNINGS identify hazardous conditions and actions that could cause BODILY HARM or DEATH.
When handling test leads or probes, keep hands and fingers behind the finger guards at all times.
$\begin{tabular}{ll} \hline \blacksquare \\ \hline \hline$
Use the meter only as specified in this User Guide or accompanying Quick Start to avoid compromising the protections provided by the meter.
Be sure to use the proper terminals, switch positions, and ranges when taking measurements.
Verify the meter's operation by measuring a known voltage. Have the meter serviced if the meter responds unusually or if there are questions regarding the meter's functional integrity.
Do not apply more than the rated voltage, as marked on the meter, between terminals or between any terminal and earth ground.
Replace blown fuses with fuses of the same type and rating as specified in this User Guide.
Use caution working with voltages above 30 VAC RMS, 42 VAC peak, or 60 VDC. These voltages pose a shock hazard.
To avoid misleading readings that could lead to electric shock and injury, replace the batteries as soon as the low battery indicator is displayed.
Disconnect power to the circuit under test and discharge all high-voltage capacitors before testing resistance, continuity, diodes, or capacitance.
Do not use the meter in the presence of explosive gas or vapor.
To reduce risk of fire or electric shock, do not use the meter if it is wet and do not expose the meter to moisture.
Individual protective equipment should be used if HAZARDOUS LIVE parts in the installation where measurements are to be carried out could be accessible.



CAUTIONS

CAUTIONS identify conditions and actions that could cause DAMAGE to the meter or equipment under test. Do not expose the meter to extremes in temperature or high humidity.

- Disconnect the test leads from the test points before changing the position of the function (rotary) switch.
- Do not expose the meter to extremes in temperature or to high humidity.
- Never set the meter to the resistance, diode, capacitance, micro-amp, or amp functions when measuring the voltage of a power supply circuit; this could result in meter damage and damage to the equipment under test.

Safety Symbols that are typically marked on meters and instructions

<u> </u>	This symbol, adjacent to another symbol, indicates the user must refer to the manual or user guide for further information.
A	Risk of electrical shock
	Fuse symbol
	Equipment protected by double or reinforced insulation
	Battery symbol
C€	Conforms to EU directives
<u> </u>	Do not discard this product in household trash.
\sim	AC measurement
	DC measurement
Ţ	Earth ground

Unsafe Voltage Alert

When the meter detects a voltage equal to or greater than 30V or a voltage overload (OL) in V, mV, or Lo Z mode, the symbol sis displayed. This system was designed to alert the user of a potentially hazardous voltage.

PER IEC1010 OVERVOLTAGE INSTALLATION CATEGORY

OVERVOLTAGE CATEGORY [1]

Equipment of OVERVOLT AGE CATEGORY I is equipment for connection to circuits in which measures are taken to limit the transient over-voltages to an appropriate low level.

Note – Examples include protected electronic circuits.

OVERVOLTAGE CATEGORY

Equipment of OVERVOLTAGE CATEGORY II is energy-consuming equipment to be supplied from the fixed installation.

Note – Examples include household, office, and laboratory appliances.

OVERVOLTAGE CATEGORY [III]

Equipment of OVERVOLTAGE CATEGORY III is equipment in fixed installations.

Note – Examples include switches in the fixed installation and some equipment for industrial use with permanent connection to the fixed installation.

OVERVOLTAGE ATEGORY M.

Equipment of OVERVOLTAGE CATEGORY IV is for use at the origin of the installation.

Note – Examples include electricity meters and primary over-current protection equipment

3. Descriptions

Meter Description (EX365 pictured)

- 1. Non-Contact Voltage Detector and Continuity alert light
- 2. LCD multi-function display
- 3. M (MODE) button (also °C/°F button on EX363)
- 4. R RANGE and Lo/Hi button
- 5. Rotary function select switch
- 6. Positive input terminal (10A Current) for EX365 only
- 7. Common (-) input terminal
- 8. Positive input terminal: Voltage, Resistance, Capacitance, Temperature (EX363), and μA (EX363)
- 9. LCD Backlight button
- 10. H Data Hold button
- 11. **PEAK** MAX-MIN / A REL (RELATIVE) button
- 12. Battery compartment on back of meter

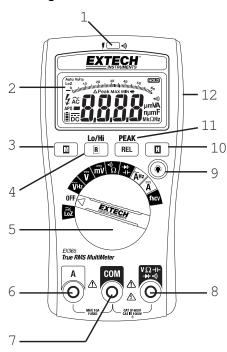


Fig 3-1 METER DESCRIPTION

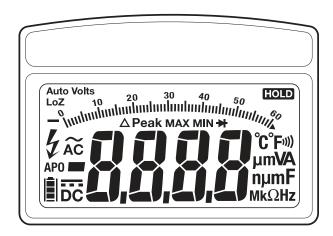
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Display Icon Descriptions

Auto Volts: Automatic AC/DC voltage detect (for Lo Z mode only) Auto: Automatic range mode HOLD: Display hold Lo Z: Low Impedance mode \square \triangle : Relative mode and **AC**: Alternating Current Measurements and **DC**: Direct Current Measurements 🖺 8888 : Main display digits Bar graph A: Amperes (Current) **V**: Volts (Voltage) C/°F: Temperature units F: Farads (Capacitance measurement units) Hz: Hertz (Frequency measurements unit) 🖺 **Ω** (Ohms): Resistance measurement unit ☐ :Battery status icon - Minus (negative) sign Non-Contact Volt Detect and high voltage icon PEAK MAX-MIN Peak Maximum and Minimum reading memory : Diode measurement mode : Continuity mode symbol

Prefixes: μ (micro: 10⁻⁶), m (milli: 10⁻³), n (nano: 10⁻⁹), k (kilo: 10³), M (mega: 10⁶)

Fig 3-2 METER DISPLAY



Push-Button Descriptions

°C/°F

Press the **M** (MODE) button to perform the following. The °C/°F function is only available on the EX363 model:

Switch Position	MODE (M) Button Function
$\widetilde{\mathbf{V}}$	V ←→ Hz
à (EX365)	A ←→ Hz
Ω	Ω → 1)))
-14-	- /+ - → + -
μΑ (EX363)	AC ←→ DC
TEMP (EX363)	°C ←→ °F

Lo/Hi



Press **R** (Range) to switch from Auto to Manual Range. Hold to return to Auto Range. Press to select Non-Contact Voltage Detector Sensitivity **Lo** (low) or **Hi** (high).

PEAK



Short press activates Relative Δ mode; long press access/exit PEAK MAX-MIN mode.



Press to turn Smart Data Hold ON or OFF.



Press to turn the LCD backlight ON or OFF

4. Operation



CAUTION: Read and understand all of the Safety statements listed in the safety section of this manual prior to use.

Powering the Meter

- Turn the rotary function switch to any position to power the meter. Check the batteries if the unit fails to power ON. Refer to the Maintenance section for battery and fuse replacements.
- 2. Turn the function switch to the OFF position to power OFF the meter.
- The meter has an Auto Power OFF feature (APO) where the meter switches OFF after 20 minutes of inactivity. When APO is enabled, the APO icon will show on the display when the meter is powered ON. To disable APO, refer to the next section.

Note: The meter displays the battery capacity when powering up. The display will either show the word FULL (battery fully charged) or a percentage representing remaining battery power. The international segmented battery strength symbol is also shown on the display at all times when the meter is ON and when there is sufficient battery power to power the meter.

Disable Auto Power OFF

The meter will auto power OFF after 20 minutes of inactivity. To defeat this feature, follow the steps below.

- 1. With the meter OFF, press and hold the **M** (MODE) button and, while continuing to hold, turn the rotary function switch to any position to power ON the meter.
- 2. The display will show AOFF.
- 3. Release the button.
- 4. APO will now be disabled until the next cycle of power.

Display Backlight

With the meter powered ON, press the backlight button ① to switch the backlight ON or OFF. Note that excessive use of the backlight will shorten the battery life.

Smart Data Hold

To freeze the LCD meter reading, press the **H** (HOLD) button. While data hold is active, the **HOLD** display icon appears on the LCD. Press the **H** button to return to normal operation. The **HOLD** icon will switch OFF.

The meter's beeper will sound and the LCD will flash if the detected signal is 50 counts greater than the held reading.

Test Lead Considerations

Test lead probe covers can be removed for CAT II 1000V installations. Use the test lead probe covers for CAT III 1000V or CAT IV 600V installations. Do not measure voltages > 1000V AC or DC. Remove the storage caps from the meter end of test leads before connecting leads to the meter.

Voltage Measurements

WARNING: Remove the test lead probe covers for CAT II 1000V installations. Use the test lead probe covers for CAT III 1000V or CAT IV 600V installations. Do not measure voltages greater than 1000V.

CAUTION: When connecting the test leads to the circuit or device under test, connect the black lead before the red; when removing the test leads, remove the red before the black lead.

AC Voltage Measurements

- 1. Insert the black test lead banana plug into the negative (COM) jack and the red test lead banana plug into the positive (V/Ω) jack.
- 2. Turn the function switch to the $m{V}$ position.
- 3. The meter defaults to the Auto Range mode (Auto displayed on LCD). Press the **R** button to access the manual range mode. Press and hold the **R** button to return to the Auto Range mode (**Auto** will be displayed).
- Read the Warning and Caution statements above to determine whether or not to use the test lead probe covers.
- 5. Touch the test probe tips to the circuit under test.
- Read the digital value and the bar graph representation of the measurement in the display.The display will also indicate the proper decimal point and measurement type/units symbols.
- 7. Note the voltage alert symbol when voltage is present.
- 8. Use the **M** button to view the frequency (Hz) of the measured voltage.

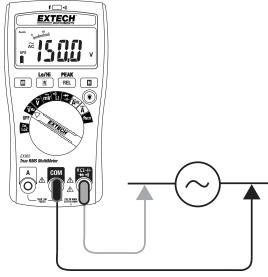


Fig 4-1 AC VOLTAGE MEASUREMENTS

DC Voltage Measurements

- 1. Insert the black test lead banana plug into the negative (COM) jack and the red test lead banana plug into the positive (V/Ω) jack.
- 2. Move the Function Switch to the $\overline{\mathbf{V}}$ or $\overline{\mathbf{n}}\overline{\mathbf{V}}$ position.
- 3. Read the Warning and Caution statements at the beginning of this section to determine whether or not to use the test lead probe covers.
- 4. Touch the test probe tips to the circuit under test. Be sure to observe the correct polarity (red lead to positive, black lead to negative).
- 5. The meter defaults to the Auto Range mode (**Auto** displayed on LCD). Press the **R** button to access the manual range mode. Press and hold the **R** button to return to the Auto Range mode.
- Read the digital value and the bar graph representation of the measurement in the display. The display will also indicate the proper decimal point and measurement type/units symbols. If the polarity is reversed, the display will show (-) minus before the value.
- 7. Note the voltage alert symbol when voltage is present.
- 8. The meter is capable of detecting DC voltages to 1000V.

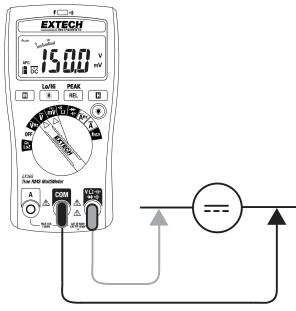


Fig 4-2 DC VOLTAGE MEASUREMENTS

Lo Z Voltage Measurements

When the function switch is turned to the **Lo Z** for position, the meter incorporates an automatic voltage detection circuit to automatically determine voltage AC or DC and a low Z (impedance) circuit* that eliminates ghost voltage complications. Refer to the Voltage Measurements section earlier in this guide for Safety information and connection diagrams.

*The 10 2 impedance is approx. 3kΩ increasing foover 100kΩ when impeasuring 1000V.

- 1. Insert the black test lead banana plug into the negative (COM) jack and the red test lead banana plug into the positive (V/Ω) jack.
- 2. Move the Function Switch to the **Lo Z** \rightleftharpoons position.
- Touch the test probe tips to the circuit under test. Be sure to observe the correct polarity (red lead to positive, black lead to negative).
- The meter defaults to the Auto Range mode (Auto displayed on LCD). Manual range cannot be used in this mode.
- Read the digital value and the bar graph representation of the measurement in the display. The display will also indicate the proper decimal point and measurement type/units symbols. If the polarity is reversed, the display will show (-) minus before the value.
- 6. The meter is capable of detecting AC/DC voltages to 1000V.
- 7. Note the voltage alert symbol ${m y}$ when voltage is present.

PEAK MAX-MIN HOLD Mode (AC only)

In the PEAK HOLD mode the meter records MAX and MIN measurement values. When the measurement exceeds a recorded MAX or MIN value, the meter replaces the existing value with the newer value.

- Press and hold the PEAK button for at least two seconds. PEAK MAX MIN will be displayed and the meter will begin recording MAX and MIN values.
- 2. A short press of the PEAK button will show the MAX recorded reading.
- 3. Another short press of the **PEAK** button will show the MIN recorded reading.
- Press the PEAK button again to view real time readings while MAX MIN recording continues in the background.
- To pause MAX MIN recording, press the H button. The display will freeze and the HOLD icon will appear. Press H again to return to real time readings (with MAX MIN recording continuing in the background)
- To exit the PEAK HOLD MAX MIN mode, press and hold the PEAK button for > 2 seconds.
 The meter will return to normal operation and the PEAK MAX MIN icons will switch OFF.

10A AC/DC Current Measurements (EX365 only)

WARNING: Do not handle the test leads above the finger/hand guard barrier.

CAUTION: Observe CAT III 1000V CAT IV 600V with respect to Earth Ground.

- 1. Insert the black test lead into the **COM** terminal and the red test lead into the **A** terminal.
- 2. Turn the meter's function switch to the **A** or **A** position. The **A** symbol will appear on the display indicating Amperes (Amps).
- 3. The meter defaults to the Auto Range mode. When in Auto mode, the display shows the **Auto** icon in the upper left corner. Use the **R** button to manually range the meter. Press and hold the **R** button to return to the Auto Range mode.
- 4. The meter display will show **AC** or **DC** depending on the function switch position.
- 5. Current measurements must be taken in series with the circuit under test. See accompanying diagram.
- Touch the black test lead to the negative side of the circuit and the red test lead to the positive side of the circuit.
- 7. Read the current measurement in the display represented by numerical digits and bar graph. The display will indicate the proper decimal point and value. In DC, If the polarity is reversed, the display will show (-) minus before the value.
- 8. Use the **M** button to view the frequency (Hz) of the measured current.

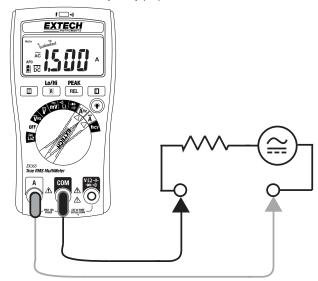


Fig 4-3 AC/DC 10A CURRENT MEASUREMENTS

μΑ AC/DC Current Measurements (EX363 only)

WARNING: Do not handle the test leads above the finger/hand guard barrier.

CAUTION: Observe CAT III 1000V and CAT IV 600V with respect to Earth Ground.

- 1. Insert the black test lead into the **COM** terminal and the red test lead into the μ A terminal.
- 2. Turn the meter's function switch to the µA position. The µA units symbol will appear on the display indicating that micro-amperes are being measured.
- 3. The meter defaults to the Manual Range mode. Auto range cannot be used in this mode.
- 4. The meter display will show **AC** or **DC** depending on the function switch position.
- 5. Current measurements must be taken in series with the circuit under test. See accompanying diagram.
- Touch the black test lead to the negative side of the circuit and the red test lead to the positive side of the circuit.
- Read the current measurement in the display represented by the numerical digits and the bar graph. The display will indicate the proper decimal point and value. In DC, If the polarity is reversed, the display will show (-) minus before the value.

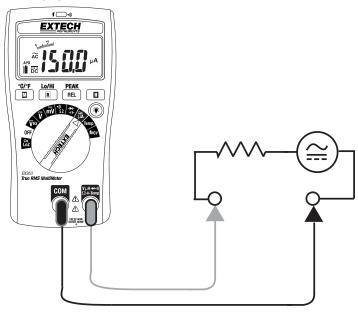


Fig 4-4 μ A AC/DC CURRENT MEASUREMENTS

Non-Contact Voltage Detector

WARNING: It is possible for voltage to be present in a circuit even if the meter does not beep or light the NCV LED lamp at the top of the meter. Always verify meter operation on a known live AC current circuit and verify that the batteries are fresh before use.

The audible beeper sounds and the LED lamp at the top of the meter lights when the meter senses an electrical voltage field.

If the meter does not emit a tone or light the LED in this mode, there is still the possibility that voltage is present. Please use caution.

- Turn the function switch to the NCV position to access the Non-Contact Voltage Detect mode.
- Use the Lo/Hi button to select low sensitivity (160 to 1000V) or high sensitivity (80 to 1000V). The display will show Lo for low sensitivity or Hi for high sensitivity mode.
- 3. Note the voltage detection display icon on the display when in this mode.
- 4. To test, place the meter near a source of electrical energy. Note that the tip of the meter offers the highest sensitivity.
- 5. Note the audible tone and the LED light when a source of electrical energy is detected.

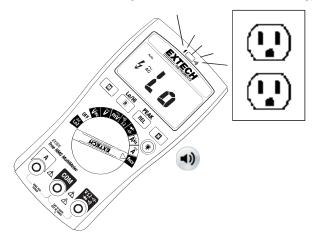


Fig 4-5 NON-CONTACT VOLTAGE DETECTOR

Resistance Measurements

Cautions: Switch OFF power to the device under test before measuring. Do not test on circuits or devices where 60VDC or 30VAC is present.

- 1. Insert the black test lead banana plug into the negative (COM) jack. Insert the red test lead banana plug into the positive (V/Ω) jack.
- 2. Turn the Function Switch to the Ω position.
- 3. Use the ${\bf M}$ button to select the ${\bf \Omega}$ icon on the display indicating resistance only (without the audible continuity icon showing).
- Touch the test probe tips across the circuit or part under test. It is best to disconnect one side of the part under test so the rest of the circuit will not interfere with the resistance reading.
- 5. Read the resistance value in the display. The display will indicate the proper decimal point and value. If the reading is out of range, the **OL** display icon will appear.

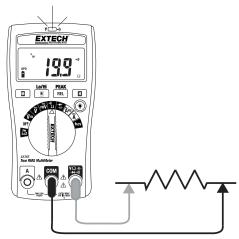


Fig 4-6 RESISTANCE/CONTINUITY MEASUREMENTS

Continuity Measurements

- Insert the black test lead into the negative COM terminal and the red test lead into the
 positive terminal.
- 2. Set the function switch to the 1)) position.
- 3. Use the **M** button to select the Continuity mode. Look for the Continuity icon **)))** on the display.
- 4. Touch the test probe tips across the wire or circuit under test.
- 5. If the resistance is < 20 Ω , the beeper will sound and the LED lamp at the top of the meter will flash. The beeper and LED lamp will switch off if the measured signal rises above approximately 200 Ω . For an open circuit condition the meter will display **OL**.

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Capacitance Measurements

WARNING: To avoid electric shock, remove power to the circuit under test and discharge the capacitor under test before measuring. Do not test on circuits or devices where 60VDC or 30VAC is present.

- 1. Set the function switch to the **+** capacitance position.
- 2. Insert the black test lead banana plug into the negative **COM** jack and the red test lead banana plug into the positive **-|-(-** jack.
- 3. Press the **M** button to select the unit of measure symbol **F**.
- 4. Touch the test probe tips across the part under test.
- 5. Use the Relative mode Δ to compare measurements to a saved, known capacitance value. See next section for Relative mode instructions.
- 6. Read the capacitance value in the display.
- 7. The display will indicate the proper decimal point and value.

Note: For large values of capacitance several seconds may be required before the reading stabilizes.

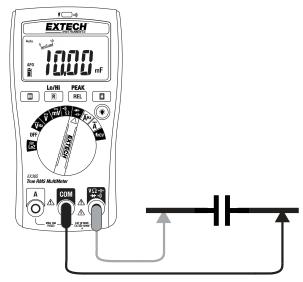


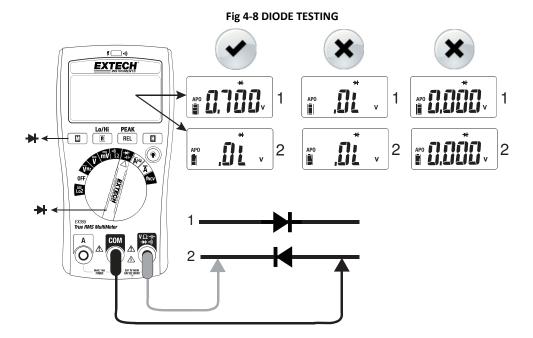
Fig 4-7 CAPACITANCE MEASUREMENTS

Relative Mode

In Relative mode a reference reading can be stored with which to compare subsequent readings. Press the Δ button to store the displayed reading in memory, this becomes the reference. The symbol Δ will be displayed when the Relative mode is active. Subsequent readings will now be compared to the stored reference (Displayed Reading = Measurement minus Reference). Press the Δ button again to exit the Relative mode; the Relative symbol will switch off.

Diode Test

- Insert the black test lead banana plug into the negative COM jack and the red test lead banana plug into the → positive jack.
- Turn the function switch to → position. Use the M button to select the diode function if necessary (the diode and voltage symbols will appear on the LCD when in Diode test mode).
- 3. Touch the test probe tips to the diode or semiconductor junction under test. Note the meter reading.
- 4. Reverse the test lead polarity by reversing the red and black leads. Note this reading.
- 5. The diode or junction can be evaluated as follows:
 - f one reading displays a value (typically 0.400V to 0.900V) and reverse reading displays **OL**, the diode is good.
 - f both readings display **OL** the device is open.
 - $\blacksquare \hspace{-0.05cm} f$ both readings are very small or '0', the device is shorted.



Temperature Measurements (EX363 only)

- 1. Insert the supplied temperature probed into the **COM** and positive terminals observing correct polarity.
- 2. Turn the function switch to the temperature position. Use the °C/°F button to select the desired unit of measure.
- 3. Touch the temperature probe tip to the device under test or leave the temperature probe in the open air to measure ambient temperature.
- 4. Read the temperature measurement on the LCD.
- To set the currently selected unit of measure as default, press and hold the backlight button while turning the meter ON.

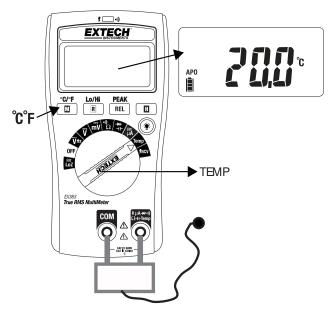


Fig 4-9 TEMPERATURE MEASUREMENTS

5. Maintenance

WARNING: To avoid electrical shock, remove the test leads, disconnect the meter from any circuit and turn OFF the meter before opening the case. Do not operate with an open case.

Battery Replacement

- 1. Remove the test leads from the meter.
- 2. Remove the meter's protective cover.
- Remove the two Phillips head screws that secure the battery compartment at the back of the meter.
- Open the battery compartment and replace the 9V battery observing correct polarity. Re-assemble the meter before use

Safety: Please dispose of batteries responsibly; never dispose of batteries in a fire, batteries may explode or leak. If the meter is not to be used for 60 days or more, remove the battery and store separately.

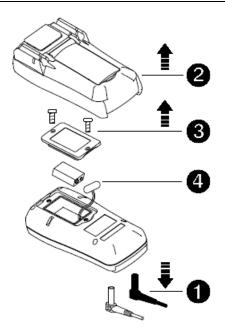


Fig 5-1 BATTERY REPLACEMENT



Never dispose of used batteries or rechargeable batteries in household waste. As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold.

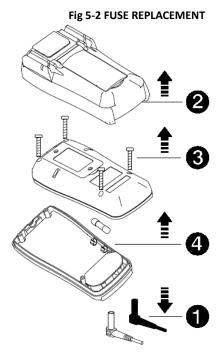
Disposal: Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

Fuse Replacement

WARNING: To avoid electrical shock, remove the test leads, disconnect the meter from any circuit and turn OFF the meter before opening the case. Do not operate with an open case.

Follow the steps in the accompanying 11A/1000V (10x38mm) fuse replacement diagram.

- 1. Remove the test leads from the meter.
- 2. Remove the meter's protective cover.
- 3. Remove the four (4) screws that secure the meter housing.
- 4. Replace the fuse with one of the same type and rating. Reassemble the meter before use.



Cleaning and Storage

Periodically wipe the case with a damp cloth and mild detergent; do not use abrasives or solvents.

LCD Diagnostic Test

Press and hold the **H** button while turning the meter ON to view all LCD icons and symbols. Turn the meter OFF to end this diagnostic test. If there is reason to suspect that a display icon is not functioning, this is a handy verification. If the display is responding unusually, or if an icon is malfunctioning, please return the meter for service.

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ELECTRICAL SPECIFICATIONS

Accuracy is by ventaged in the action of the

- 1. Temperature Oberficient Isoli Lispecified accuracy III C 182.4/F/III A 182.4/F/III
- 2. ACEInctionality: ACM and ACAI specifications are ACE oupled, Thue EMS, the ladcuracy for square waveforms is unspecified. For inon-sinusoidal waveforms, ladditional ladcuracy or state of the square waveforms and the square waveforms are squared waveforms.

Add \$10% for C.F. \$10~2.0; Add \$5.0% for C.F. \$2.0~2.5; Add \$10% for C.F. \$2.5~3.0 \$1

Function	Range		Accuracy (of reading)	'OL' Reading		
mV DC	600.0mV	0.1mV	± (0.5% + 5 digits)	660.0mV		
Input Impedance: IDM; Overload Potection: IAC DC III 000VIII						
	6.000V	0.001V	± (0.5% + 2 digits)	6.600V		
DCV-lh	60.00V	0.01V		66.00V		
DC Voltage	600.0V	0.1V		660.0V		
	1000V	1V		1100V		
Input Impedance: 10M; Ove	rload Protectio	n: 🗚 DC 1000)V[]			
	600.0mV	0.1mV	± (1.0% + 5 digits)	660.0mV		
	6.000V	0.001V		6.600V		
AC Voltage	60.00V	0.01V	± (1.0% + 3 digits)	66.00V		
	600.0V	0.1V		660.0V		
	1000V	1V		1100V		
LODDisplays income when the reading income in the reading income in the reading income income in the requency easy on set in the requency easy on set in the reading income in the reading in the reading income in the reading in the readi						
Lo 7 /Low Impedance	600.0V	0.1V	± (2.0% + 3 digits)	660.0V		
, , ,		1V		1100V		
LODisplays in the little leading in the leading in						
μA DC (EX363 only)	600.0 μΑ	0.1uA	± (1.0% + 2 digits)	660.0μΑ		
Input limpedance: Salaprox. Overlinad protection: 1000VAO DC 11						

Function	Range	Resolution	Accuracy (of reading)	'OL' Reading	
μΑ AC (EX363 only)	600.0 μΑ	0.1uA	± (1.5% + 3 digits)	660.0μΑ	
LOD Displays Dispunts when the reading To counts					
Input Impedance: AΩ Appro Frequency Asponse: 45~50		2) E0			
Over bad protection: 1000\		,,			
AC Current (EX365)	6.000 A	0.001	± (1.5% + 3 digits)	6.600A	
	10.00 A	0.01	, , ,	20.00A	
In 6A Range, fine 100 display					
In10A ange, the LOD displa Maximum measurement in	ysl@loduntslwh	enthelieading	#10 lood unts.	films 🕅	
10Aformax. 30 seconds v				www.ie.	
Frequency Response 115	00Hz (Sine Wa				
Overload Protection AC DO	lll A	ī			
DC Current (EV26E)	6.000 A	0.001	± (1.0% + 3 digits)	6.600A	
DC Current (EX365)	10.00 A	0.01	± (1.0% + 3 digits)	20.00A	
Maximum measurement in				filme.	
>10Aformax.30secondsw		minuteslæstli	me.🖺		
Overload Protection (IAC) DO		0.1.0	. (0.00(5.11 11.)	550.00	
	600.0	0.1 Ω	± (0.9% + 5 digits)	660.0 Ω	
	6.000k Ω	0.001k Ω	± (0.9% + 2 digits)	6.600 kΩ	
Resistance	60.00k Ω	0.01k Ω	± (0.9% + 2 digits)	66.00 kΩ	
Resistance	600.0k Ω	0.1k Ω	± (0.9% + 2 digits)	660.0 kΩ	
	6.000M Ω	0.001Μ Ω	± (0.9% + 2 digits)	6.600 MΩ	
	40.00Μ Ω	0.01Μ Ω	± (1.5% + 5 digits)	$44.00~\text{M}\Omega$	
Overload Adotection: 1000VAD DC Note that agits may fluctuate 150 agits when the asuring above 10.00M					
Continuity	600.0 Ω	0.1 Ω	± (0.9% + 5 digits)	660.0 Ω	
Continuity: Built-in beeper sounds when the asured this ist ancel stess than 20Ω. Beeper for ns of when the					
measured lesistance goes a	ove 200Ω		·		
Continuity Deeper frequency	(Lione:l2KHz;l=	esponsel:Time:l	<u> </u>	ection:LAC/DC11000V	
Diode	1.550V	0.001V	± (0.9% + 2 digits)	n/a	
Open@rouit@ltage.pprox.@8V;@verload@otection@00DC1000V					
	1.000 μF	0.001 μF	± (1.9% + 5 digits)	1.100 μF	
	10.00 μF	0.01 μF	± (1.9% + 2 digits)	11.00 μF	
Capacitance	100.0 μF	0.1 μF		110.0 μF	
	1.000 mF	0.001 mF		1.100 mF	
	10.00 mF	0.01 mF		11.00 mF	
Overload Potection: 1000 VAC DO					

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Function	Range	Resolution	Accuracy (of reading)	'OL' Reading	
	100.00 Hz	0.01 Hz	± (0.1% + 2 digits)	100.00 Hz	
Fraguesa	1000.0 Hz	0.1 Hz		1000.0 Hz	
Frequency	10.000 kHz	0.001kHz		10.000 kHz	
	100.00 kHz	0.01kHz		100.00 kHz	
Minimumsensitivity: Styling Actification Act					
	-40.0~400.0	°C 0.1°	± (1.0% + 20 digits)*	440.0 °C	
	-40.0~752.0	°F 0.1°	± (1.0% + 36 digits)*	824.0 °F	
Temp. (EX363)	* Does not include accuracy of the temperature probe. Accuracy specifications assume surrounding temperature subject to 11°C For lambient temperature changes of 12°C, tated accuracy applies after 2 fours of stabilization fine.				
	OVERLOAD(AROTECTION: ACT DO TOOOV				
Peak MIN-MAX			Specified accuracy ± 150 digits		
Accuracy of Square wave list on specified					
Non-Contact	80~1000V (high sensitivity mode) 50~60Hz				
Voltage Detector	160~1000V (low sensitivity mode) 50~60Hz				
The tip of the ineter of the optimum sensitivity					

GENERAL SPECIFICATIONS

Display6000-count Multi-Function LCDOver-range indication"OL" or "-OL" is displayedConversion rate3 updates per second

Maximum Voltage 1000VAC RMS or 1000V DC maximum applied to any terminal

Polarity indication Automatic: positive implied, negative indicated (-)

Low battery indication is displayed. Meter also displays available battery power at

startup

Auto Power OFF After 20 minutes (can be disabled by holding the M (MODE) button

while turning the meter ON)

Operating Temperature and Humidity

-10~10 (14~50)

10~30(50~86); 80%RH maximum 30~40(86~104); 75%RH maximum 40~50(104~122); 45%RH maximum

Storage Temperature and Humidity

-20 60 (-4 140); 80%RH maximum (with battery removed)

Operating Altitude 2000m (6562')

Battery power 9V battery (battery life 200 hours typical with alkaline battery types) **Fuse protection** 11A/1000V (10x38mm) AC/DC high energy (IR 20kA) DMM-B-11A

(EX365 only)

Weight 250g (8.8 oz.)Including battery **Dimensions** (W x H x D) 74 x 156 x 44mm (2.9 x 6.1 x 1.7")

Safety Standards Complies with EN61010-1, CAT IV 600V, CAT III 1000V, Pollution

Degree 2

EMC EN61326-1

Shock and Vibration Sinusoidal vibration MIL-PRF-28800F (5~55 Hz, 3g max.)

Drop Protection 1.2m (4') drop onto hardwood on concrete flooring

For Indoor Use

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