Extech EX850

True RMS 1000 Amp Clamp Meter

Bluetooth^TM and Android^TM ready

Patented

$C\,\epsilon$
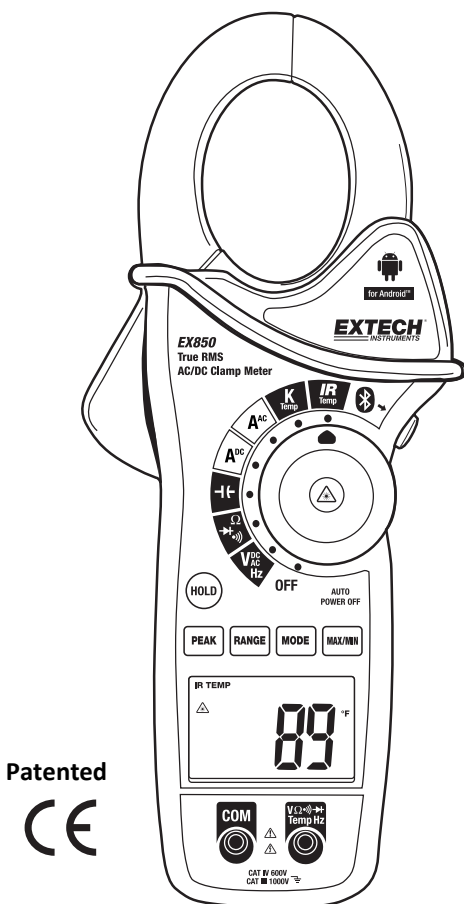
Introduction

Congratulations on your purchase of the Extech EX850 CAT IV True RMS 1000A Clamp Meter. This meter includes a Bluetooth™ module and is Android™ ready. The EX850 measurement functions include AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency, Duty Cycle, Diode Test, Continuity, Type k thermocouple thermometer plus Non-Contact IR Temperature. Proper use and care of this meter will provide many years of reliable service. Visit www.extech.com for more information.

Safety

International Safety Symbols

⚠ This symbol, adjacent to another symbol or terminal, indicates 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

▫ Double insulation

SAFETY NOTES

- Do not exceed the maximum allowable input range of any function.
- Do not apply voltage to meter when resistance function is selected.
- Set the function switch OFF when the meter is not in use.
- Remove the battery if meter is to be stored for longer than 60 days.

WARNINGS

- Set function switch to the appropriate position before measuring.
- When measuring volts do not switch to current/resistance modes.
- Do not measure current on a circuit whose voltage exceeds 600V.
- When changing ranges always disconnect the test leads from the circuit under test.

| Function	Maximum Input
A AC, ADC	1000A DC/AC
V DC, V AC	1000V DC/AC
Resistance, Capacitance, Frequency, Diode Test	250V DC/AC
Type K Temperature	60V DC, 24V AC

CAUTIONS

- Improper use of this meter can cause damage, shock, injury or death. Read and understand this user manual before operating the meter.

- Always remove the test leads before replacing the battery or fuses.

- Inspect the condition of the test leads and the meter itself for any damage before operating the meter. Repair or replace any damage before use.

- Use great care when making measurements if the voltages are greater than 25VAC rms or 35VDC. These voltages are considered a shock hazard.

- Always discharge capacitors and remove power from the device under test before performing Diode, Resistance or Continuity tests.

- Voltage checks on electrical outlets can be difficult and misleading because of the uncertainty of connection to the recessed electrical contacts. Other means should be used to ensure that the terminals are not "live".

- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

- This device is not a toy and must not reach children's hands. It contains hazardous objects as well as small parts that the children could swallow. In case a child swallows any of them, please contact a physician immediately

- Do not leave batteries and packing material lying around unattended; they can be dangerous for children if they use them as toys

- In case the device is going to be unused for an extended period of time, remove the batteries to prevent them from draining

- Expired or damaged batteries can cause cauterization on contact with the skin. Always, therefore, use suitable hand gloves in such cases

- See that the batteries are not short-circuited. Do not throw batteries into the fire.

- **Do not directly view or direct the laser pointer at an eye.** Low power visible lasers do not normally present a hazard, but may present some potential for hazard if viewed directly for extended periods of time

**AVOID EXPOSURE**
Laser radiation is emitted from this aperture

CAUTION

LASER RADIATION-DO NOT STARE INTO BEAM
OUTPUT<1mW WAVELENGTH 630-670nm
CLASS 2 LASER PRODUCT
EN 60825-1:1994/A11:1996/A2:2001/A1:2002

Description

Meter Description

1. Current clamp
2. Clamp opening trigger
3. Data Hold Button
4. Mode
5. Peak
6. Range
7. DCA Zero
8. MIN/MAX
9. Backlit LCD Display
10. Test lead input jacks
11. IR thermometer and laser pointer (rear)
12. Bluetooth SEND/Backlight Button
13. Laser pointer button
14. Function switch
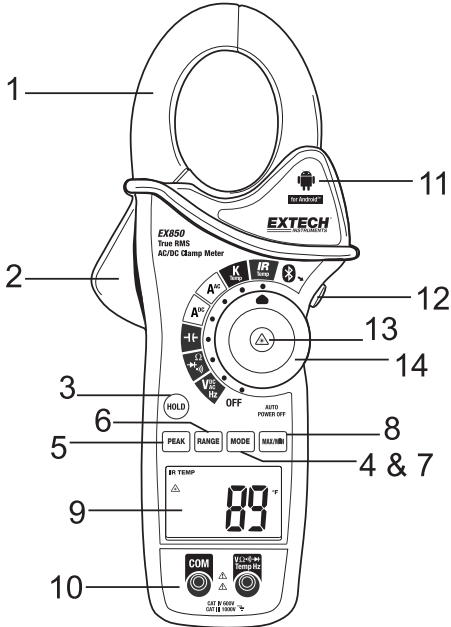
Display icons Description

|	
HOLD	Data Hold
Minus sign	Negative reading display
0 to 3999	Measurement display digits
ZERO	Zero
P	Peak value
AUTO	Auto Range mode
DC/AC	Direct / Alternating Current
MAX	Max reading
MIN	Min reading
⌁	Low battery
mV or V	Milli-volts or Volts (Voltage)
Ω	Ohms (Resistance)
A	Amperes (Current)
F	Farad (Capacitance)
Hz	Hertz (Frequency)
^{o}F and ^{o}C	Fahrenheit and Celsius units (Temperature)
n, m, µ, M, k	Unit of measure prefixes: nano, milli, micro, mega, and kilo
•)))	Continuity test
➤⊢	Diode test
⚠※	Laser pointer
⁍	Bluetooth active symbol
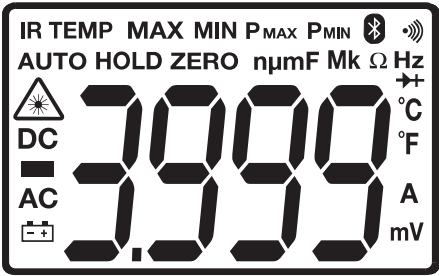
Operation

NOTES: Read and understand all **Warning** and **Caution** statements in this operation manual prior to using this meter. Set the function select switch to the OFF position when the meter is not in use.

AC Current Measurements

WARNING: Ensure that the test leads are disconnected from the meter before making current clamp measurements.

1. Set the Function switch to the **AAC** or **ADC** range

2. Press the trigger to open the jaw. Fully enclose only one conductor. For optimum results, center the conductor in the jaw.

3. The clamp meter LCD will display the reading.


Correct   **Incorrect**
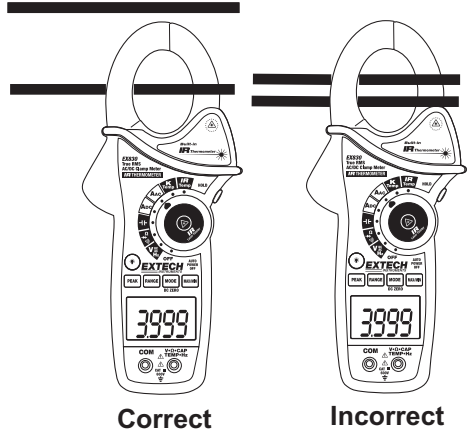
DCA ZERO

The DC Zero feature removes offset values and improves accuracy for DC current measurements. To perform a zero, select ADC and with no conductor in the jaw:

1. Press the **DC ZERO** button to zero the display. "ZERO" will appear in the display. The offset value is now stored and removed from all measurements.

2. To view the stored value, press the **DC ZERO** button. "**ZERO**" will flash and the stored value will be displayed.

3. To exit this mode, press and Hold the **ZERO** button until "**ZERO**" is no longer in the display.

## AC/DC Voltage Measurements

1. Insert the black test lead into the negative **COM** terminal and the red test lead into the positive **V** terminal.

2. Set the function switch to the **VAC or VDC** position.

3. Use the **MODE** button to select AC or DC Voltage.

4. Connect the test leads in parallel to the circuit under test.

5. Read the voltage measurement on the LCD display.
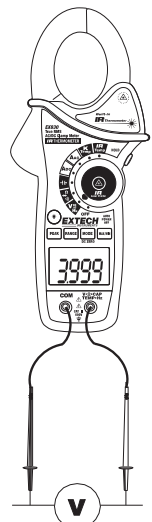
Resistance Measurements

Note: Remove power before making resistance measurements

1. Insert the black test lead into the negative **COM** terminal and the red test lead into the Ω positive terminal.

2. Set the function switch to the Ω position.

3. Touch the test probe tips across the circuit or component under test.

4. Read the resistance on the LCD display.
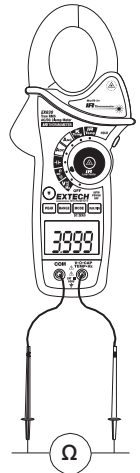
Capacitance Measurements

WARNING: To avoid electric shock, discharge the capacitor under test before measuring. If "**dISC**" appears in the display, remove and discharge the capacitor.
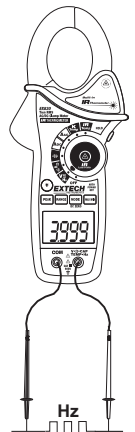
1. Set the function switch to the ⊣⊢ Ω capacitance position.

2. Insert the black test lead banana plug into the negative **COM** jack and the red test lead banana plug into the **CAP** positive jack.

3. Press MODE to zero any stray capacitance.

4. Touch the test probe tips across the part under test.

5. Read the capacitance value in the display.

6. The display will indicate the proper decimal point and value.

Note: For very large values of capacitance measurement time can be several minutes before the final reading stabilizes.

Frequency Measurements

1. Set the function switch to the V Hz Position.

2. Press and hold the MODE button to select the Frequency (Hz) function. "k Hz" will appear in the display.

3. Insert the black test lead banana plug into the negative COM jack and the red test lead banana plug into the Hz positive jack.

4. Touch the test probe tips across the part under test.

5. Read the Frequency value on the display.

6. The display will indicate the proper decimal point and value.

7. Press and hold the MODE button again to return to the voltage mode

Type K Temperature Measurements

1. Set the function switch to the **K Temp** position.

2. Insert the Temperature Probe into the negative **COM** and the positive **TEMP** jacks, observing polarity.

3. Touch the Temperature Probe tip to the device under test. Continue to touch the part under test with the probe until the reading stabilizes.

4. Read the temperature on the display. The digital reading will indicate the proper decimal point and value.

WARNING: To avoid electric shock, be sure the thermocouple probe has been removed before changing to another measurement function.

Note: Open inputs or temperature over-ranges cause "**OL**" display and beep.

Note: See the "Temperature Units" paragraph to select °F or °C

Note: The temperature range of the supplied thermocouple probe is -20 to 250°C (-4 to 482°F)

Continuity Measurements

1. Insert the black test lead into the negative **COM** terminal and the red test lead into the Ω positive terminal.

2. Set the function switch to the ●**)))** position.

3. Use the **MODE** button to select continuity ●**)))**. The display icons will change when the **MODE** button is pressed.

4. Touch the test probe tips across the circuit or component under test.

5. If the resistance is < 40 Ω, a tone will sound.

Diode Test

1. Insert the black test lead banana plug into the negative **COM** jack and the red test lead banana plug into the ➤⊦ positive jack

2. Turn the function switch to ➤⊦ position. Use the **MODE** button to select the diode function if necessary (diode symbol 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:

    - If one reading displays a value (typically 0.400V to 0.900V) and the other reading displays **OL**, the diode is good.

    - If both readings display **OL** the device is open.

    - If both readings are very small or '0', the device is shorted.

Non-Contact InfraRed Temperature Measurements

1. Set the function switch to the **IR Temp** position.
2. Aim the infrared sensor (rear of the meter) at the surface to be measured.
3. Press the ⬤ button in the center of the rotary function switch to turn on the laser pointer and identify the surface spot to be measured.
4. The area of the surface to be measured must be larger than the spot size as determined by the distance to spot size specification.
5. Read the temperature in the display.

Note: See the "Temperature Units" paragraph to select ^{o}F or ^{o}C

CAUTION

LASER RADIATION
DO NOT STARE INTO BEAM

DIODE LASER
<1mW Output at 630 to 670nm
CLASS II LASER PRODUCT

WARNING: Do not directly view or direct the laser pointer at an eye. Low power visible lasers do not normally present a hazard, but may present some potential for hazard if viewed directly for extended periods of time.

IR Spot to Distance Diagram

The 8:1 spot to distance ratio determines the size of the measured surface area with respect to the distance the meter is held away from the surface.

Diameter of spot

7.5cm

2.5cm

1.25cm

10cm

20cm

60cm

Distance to object
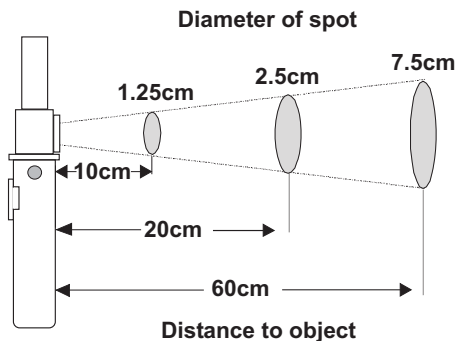
IR Measurement Notes

1. The object under test should be larger than the spot (target) size calculated by the field of view diagram.
2. If the surface of the object under test is covered with frost, oil, grime, etc., clean before taking measurements.
3. If an object's surface is highly reflective, apply masking tape or flat black paint to the surface before measuring.
4. The meter may not make accurate measurements through transparent surfaces such as glass.
5. Steam, dust, smoke, etc. can obscure measurements.
6. To find a hot spot, aim the meter outside the area of interest then scan across (in an up and down motion) until the hot spot is located.

Data Hold

To freeze the LCD reading, press the **HOLD** button. While data hold is active, the **HOLD** icon appears on the LCD. Press the **HOLD** button again to return to normal operation.

Peak Hold

The Peak Hold function captures the peak AC or DC voltage or current. The meter can capture negative or positive peaks as fast as 1 millisecond in duration.

1. Turn the function switch to the A or V position.

2. Use the **MODE** button to select AC or DC

3. Allow time for the display to stabilize.

4. Press and Hold the **PEAK** button until "**CAL**" appears in the display. This procedure will zero the range selected.

5. Press the **PEAK** button, **Pmax** will display.

6. The display will update each time a higher positive peak occurs.

7. Press the **PEAK** button again, **Pmin** will display. The display will now update and indicate the lowest negative peak.

8. To return to normal operation, press and hold the **PEAK** button until the **Pmin** or **Pmax** indicator switches off.

   Note: If the Function switch position is changed after a calibration the Peak Hold calibration must be repeated for the new function selected.

MAX/MIN

1. Press the **MAX/MIN** key to activate the MAX/MIN recording mode. The display icon "**MAX**" will appear. The meter will display and hold the maximum reading and will update only when a new "max" occurs.

2. Press the **MAX/MIN** key and the display icon "**MIN**" will appear. The meter will display and hold the minimum reading and will update only when a new "min" occurs

3. Press the **MAX/MIN** key and a blinking "**MAX MIN**" will appear. The meter will display the present reading, but will continue to update and store the max and min readings.

4. To exit MAX/MIN mode press and hold the **MAX/MIN** key for 2 seconds.

Temperature Units (˚F / ˚C)

The temperature unit selection switch is located in the battery compartment. To change the units, remove the battery door, lift out the battery and set the switch for the desired units.
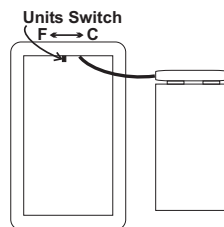
LCD Backlight Button ☿

The LCD is equipped with backlighting for easier viewing, especially in dimly lit areas. Press the backlight button to turn the backlight on. Press again to turn the backlight off.

Automatic Power OFF

In order to conserve battery life, the meter will automatically turn off after approximately 10 minutes. To turn the meter on again, turn the function switch to the OFF position and then to the desired function position.

Bluetooth™ Communication

The meter includes a Bluetooth module. Enable the EX850 Bluetooth by pressing and holding the side Bluetooth SEND/Backlight button for two seconds. On the second beep the Bluetooth icon will appear in the display.

Android™ Applications

The EX850 meter is Android ready. Follow the steps below to obtain the Android application **ExView™ EX850** and to connect to the meter with an Android device.

1. Obtain and install the Android **ExView™ EX850** application from the Google Play Store.
2. Perform a search to obtain the EX850 from the list of available devices.
3. Pair the meter with the Android device (pad, tablet, phone, etc.) in Settings under Bluetooth.
4. Start the **ExView™ EX850** application, tap CONNECT and the paired list will appear. Select the EX850 meter from the paired list.
5. The meter will begin communicating and Meter readings will appear on the Android device.
6. The user can select the meter's measurement mode directly from the icons shown on the bottom row of the Android device (V, A, mA, A, etc.). Simply tap the desired measurement parameter to view the readings. Refer to the screen shots below.
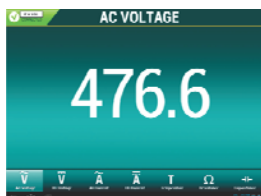
Note: If several meters are to be used, be sure to note the unique address of each meter to quickly discern which meter is displaying at any given time.

Android Application Screen Shot Examples

AC Current
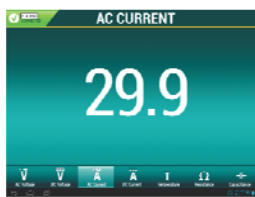
AC Voltage

FCC COMPLIANCE

FCC ID: IWK-EX850

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

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 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: FCC Radiation Exposure Statement**

1.   This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.   This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

3.   To maintain compliance with FCC RF exposure compliance requirements avoid direct contact to the transmitting antenna during transmission.

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

INDUSTRY CANADA (IC) COMPLIANCE

IC ID: 1590A-EX850

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

> ⚠ **CAUTION: IC Radiation Exposure Statement**
>
> 1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
>
> 2. This equipment complies with RSS 102 RF radiation exposure limits set forth for an uncontrolled environment.
>
> 3. To maintain compliance with RSS 102 RF exposure compliance requirements avoid direct contact to the transmitting antenna during transmission.

Maintenance

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

Cleaning and Storage

Periodically wipe the case with a damp cloth and mild detergent; do not use abrasives or solvents. If the meter is not to be used for 60 days or more, remove the battery and store it separately.

Battery Replacement

1. Remove the Phillips head screw that secures the rear battery door
2. Open the battery compartment
3. Replace the 9V battery
4. Secure the battery compartment

Specifications

Function	Range & Resolution	Accuracy (% of reading + digits)
AC Current 50/60 Hz	400.0 AAC	± (2.5% + 8d)
	1000 AAC	± (2.8% + 5d)
DC Current	400.0 ADC	± (2.5% + 5d)
	1000 ADC	± (2.8% + 5d)
AC Voltage 50/60Hz	400.0 mVAC	± (1.0% + 10d)
	4.000 VAC	± (1.5% + 5d)
	40.00 VAC	
	400.0 VAC	
	1000 VAC	± (2.0% + 5d)
DC Voltage	400.0 mVDC	± (0.8% + 2d)
	4.000 VDC	± (1.5% + 2d)
	40.00 VDC	
	400.0 VDC	
	1000 VDC	± (2.0% + 2d)
Resistance	400.0Ω	± (1.0% + 4d)
	4.000kΩ	± (1.5% + 2d)
	40.000kΩ	
	400.0kΩ	
	4.000MΩ	± (2.5% + 3d)
	40.00MΩ	± (3.5% + 5d)
Capacitance	4.000nF	± (5.0% + 30d)
	40.00nF	± (5.0% + 20d)
	400.0nF	± (3.0% + 5d)
	4.000μF	
	40.00μF	
	400.0μF	± (4.0% + 10d)
	4.000mF	± (10% + 10d)
	40.00mF	unspecified
Frequency	4.000kHz	± (1.5% + 2d)
	Sensitivity: 100V (<50Hz); 50V (50 to 400Hz); 5V (401Hz to 4000Hz)	

Function	Range and Resolution	Accuracy (% of reading + digits)
Temperature (type-K)	-4 to 1400°F	± (3%rdg + 9°F)
	-20 to 760°C	± (3%rdg + 5°C)
Temp (IR)	-58 to -4°F	± 9 °F
	-4 to 518°F	±2.0% reading or ± 4°F whichever is >
	-50 to -20°C	±5°C
	-20 to 270°C	±2.0% reading or ±2°C whichever is >

Clamp jaw opening   1.7" (43mm) approx.
Display   3-3/4 digits (4000 counts) backlit LCD
Continuity check   Threshold 40Ω; Test current < 0.5mA
Diode test   Test current of 0.3mA typical;
Open circuit voltage < 3VDC typical
Low Battery indication   Battery symbol is displayed
Over-range indication   'OL' display
Measurement rate   2 readings per second, nominal
Bluetooth range   32 feet (10 meters) approximately
PEAK   Captures peaks >1ms
Thermocouple sensor   Type K thermocouple required
IR Spectral response   6 to 16μm
IR Emissivity   0.95 fixed
IR distance ratio   8:1
Input Impedance   10MΩ (VDC and VAC)
AC bandwidth   50 to 400Hz (AAC and VAC)
AC response   True rms (AAC and VAC)
Crest Factor   3.0 in 40A and 400A ranges, 1.4 in 1000A range (50/60Hz and 5% to 100% of range)
Operating Temperature   41°F to 104°F (5°C to 40°C)
Storage Temperature   -4°F to 140°F (-20°C to 60°C)
Operating Humidity   Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F (40°C)
Storage Humidity   <80%
Operating Altitude   7000ft. (2000meters) maximum
Battery   One (1) 9V Battery (NEDA 1604)
Auto power OFF   After approx. 10 minutes
Dimensions & Weight   10.6x4.3x2" (270x110x50mm); 13.6 oz. (386g)
Safety   For indoor use and in accordance with the requirements for double insulation to IEC1010-1 (2001): EN61010-1 (2001) Overvoltage Category IV 600V and Category III 1000V, Pollution Degree 2.
Patent notice   U.S. Patent 7163336

Warranty

FLIR Systems, Inc. warrants this Extech Instruments brand device *to be free of defects in parts and workmanship for* *one year* *from date of shipment (a six month limited warranty applies to 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 for authorization. Visit the website www.extech.com for contact information. A Return Authorization (RA) number must be issued before any product is returned. 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. FLIR Systems, Inc. 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. FLIR'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.*

Calibration, Repair, and Customer Care Services

FLIR Systems, Inc. offers repair and calibration services for the Extech Instruments products we sell. NIST certification for most products is also provided. Call the Customer Service Department for information on calibration services available for this product. Annual calibrations should be performed to verify meter performance and accuracy. Technical support and general customer service is also provided, refer to the contact information provided below.

Support Lines: U.S. (877) 439-8324; International: +1 (603) 324-7800

Technical Support: Option 3; E-mail: support@extech.com

Repair & Returns: Option 4; E-mail: repair@extech.com

Product specifications are subject to change without notice

Please visit our website for the most up-to-date information

www.extech.com

FLIR Commercial Systems, Inc., 9 Townsend West, Nashua, NH 03063 USA

ISO 9001 Certified

Garantie

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Calibrage, réparation et services après-vente

FLIR Systems, Inc. offre des services de calibrage et de réparation pour les produits Extech Instruments que nous commercialisons. Nous fournissons également une certification NIST pour la plupart des produits. Contactez notre service client pour toute information sur les services de calibrage disponibles pour ce produit. Un calibrage doit être effectué chaque année pour vérifier les performances et la précision du mètre. Nous offrons également une assistance technique et un service à la clientèle. Veuillez vous reporter aux coordonnées fournies ci-dessous.

Lignes d'assistance : États-Unis (877) 439-8324 ; international : +1 (603) 324-7800

Service d'assistance technique : Option 3 ; E-mail : support@extech.com

Réparations et retours : Option 4 ; E-mail : repair@extech.com

Les spécifications produit sont sujettes à modifications sans préavis.

Pour les toutes dernières informations, veuillez visiter notre site Web.

www.extech.com

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Certifié ISO 9001

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Garantía

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Líneas de soporte: EE.UU. (877) 439-8324; Internacional: +1 (603) 324-7800

Soporte Técnico Opción 3; correo electrónico: support@extech.com

Reparación / Devoluciones: Opción 4; correo electrónico: repair@extech.com

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