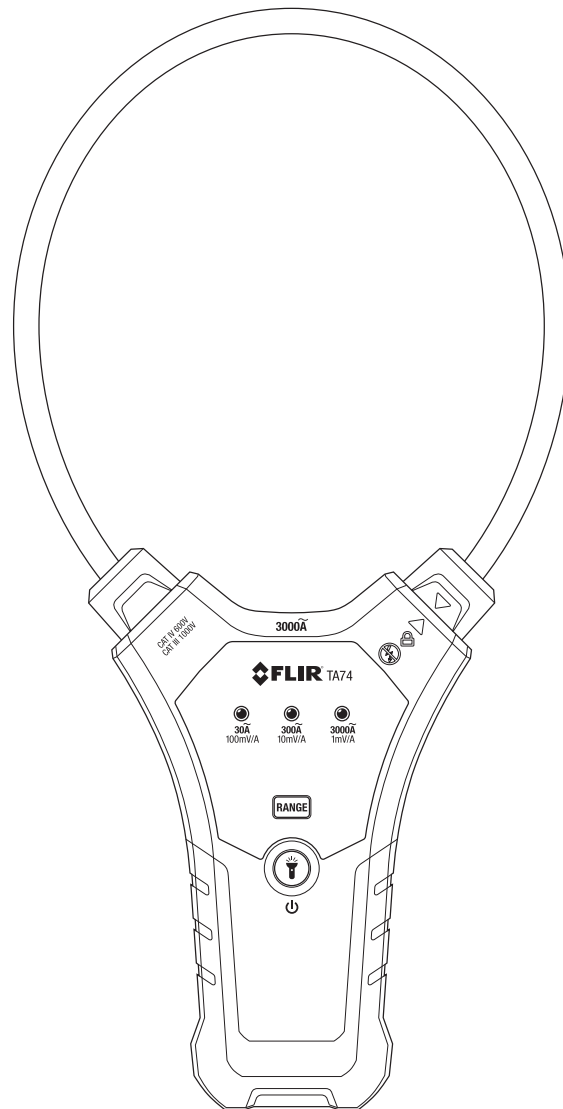




GETTING STARTED

FLIR MODEL TA72 and MODEL TA74

UNIVERSAL FLEX CURRENT PROBE ACCESSORY

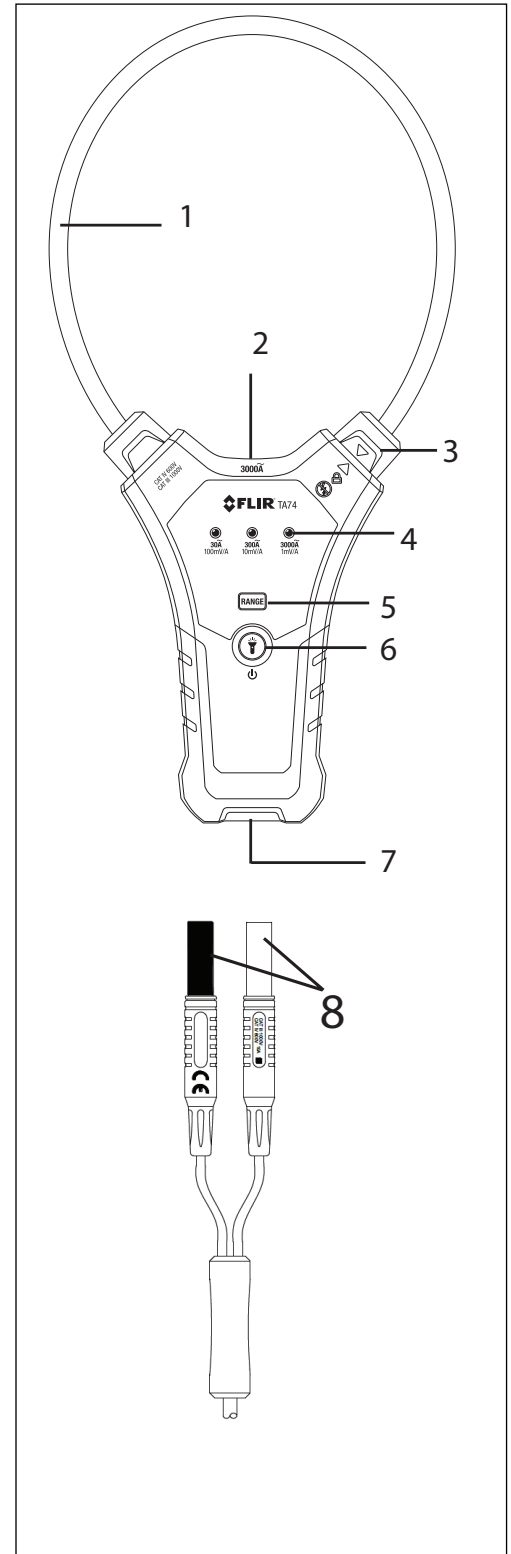


USER GUIDE LOCATION: The detailed User Guide is located in the product packaging and on the support.flir.com web site (download tab). Please read the entire User Guide to gain a thorough understanding of the meter before use.

Register for Extended Warranty and Product Updates at www.flir.com/testwarranty

Quick Overview

- Press and hold to power ON or OFF.
- The meter is powered by two 1.5V 'AAA' batteries (rear compartment); replace when meter does not power ON.
- The meter will beep as it switches ON and one of the three Range indicators will be lit. Use the Range button to change the range.
- Meter switches OFF automatically after 10 minutes of inactivity.
- Current Measurements are covered on the next page.
- For the diagram at right, see the descriptions below:
 1. Flexible Current Clamp Coil
 2. Work Lights
 3. Clamp lock mechanism
 4. Range indicators
 5. RANGE select button (press to manually range)
 6. Power and Work Lights button
 7. Test lead cable connection
 8. Test leads (connect to DMM set to Volts AC range)
- When powered, press to turn Work Lights ON or OFF.
- Press RANGE for Manual Ranging (Auto Range is default).



Button and Indicator Overview

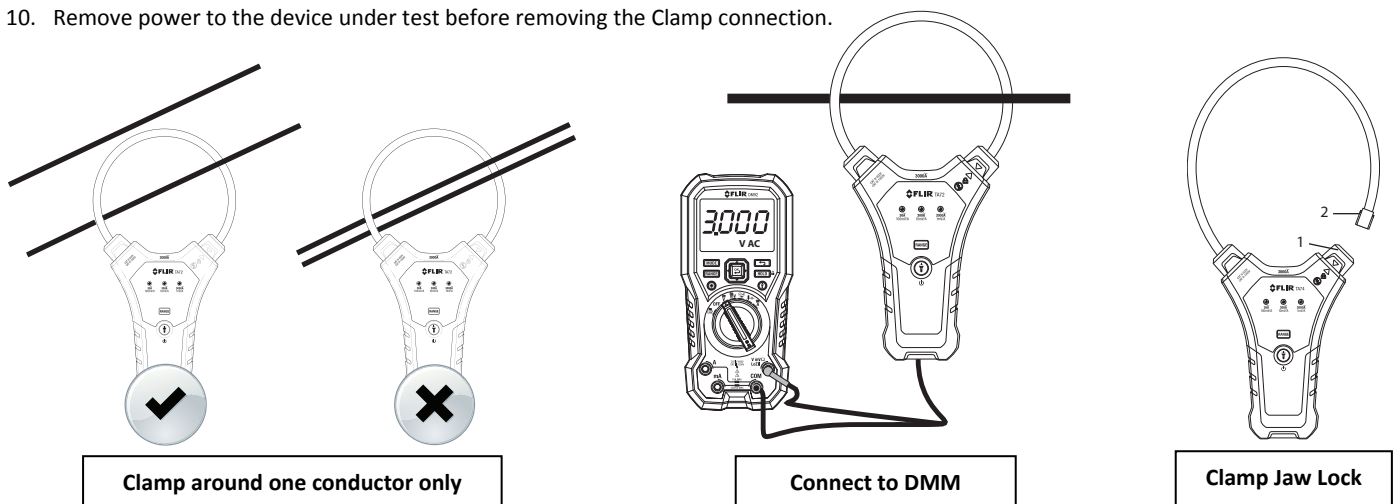
	Press to step through the ranges manually
	With meter on, press to activate/deactivate work lights
	Press and hold to switch power ON/OFF
 30A 100mV/A	Illuminates when the 30A range is selected
 300A 10mV/A	Illuminates when the 300A range is selected
 3000A 1mV/A	Illuminates when the 3000A range is selected

AC Current Measurements

⚠ WARNING: Ensure that power to the device under test is OFF before starting this procedure. Switch power to the device under test ON only after the clamp has been safely attached to the device under test.

⚠ CAUTION: Do not move fingers above the meter's indicator lamps at any time during a test.

1. Switch OFF the Clamp Adaptor, the DMM, and the device under test.
2. Connect the Clamp Adaptor to the DMM input jacks using the supplied banana plugs (see diagram below).
3. Switch ON the DMM and set the DMM to the AC V mode.
4. Use the **RANGE** button to set the measurement range to the expected current range measurement.
5. Turn the clamp lock (1) counter-clockwise to release the clamp (2); see Clamp Jaw Lock diagram.
6. Fully enclose only one conductor of the device under test with the flexible clamp probe. Do not measure current higher than the specified current limit.
7. Attach the flexible clamp (2) to the lock (1) and secure it by turning the lock clockwise.
8. Switch the Clamp Adaptor ON (press and hold the Power button) and then switch the device under test ON. Never move fingers above the range indicator lights when testing.
9. Read the current value in the DMM display.
10. Remove power to the device under test before removing the Clamp connection.



Manual Range Selection

For the best results, with regard to output signal, select the correct range, using the **RANGE** button, according to expected current measurement. See Table and Examples below:

Range Selected	Best Performance	Multiplier*	
30A (100mV/1A)	30.00A maximum	DMM reading x10	Example 1: 30A Measurement With the DMM set to the AC Voltage mode: Clamp set to the 30A range: the clamp output will be 3000mV (3.0 VAC) DMM will display 3.000 in the V AC mode (x10 = 30A) Clamp set to the 300A range: the clamp output will be 300mV (0.3VAC) DMM will display 0.300 in the V AC mode (x100 = 30A)
300A (10mV/1A)	30.0~300.0A	DMM reading x100	
3000A (1mV/1A)	300.0~3000A	DMM reading x1000	
Example 2: 60A Measurement With the DMM set to the AC Voltage mode: Clamp set to the 300A range: the clamp output will be 600mV (0.6VAC); DMM will display 0.600 in the V AC mode (x100 = 60A) Clamp set to the 3000A range: the clamp output will be 60mV (0.06VAC) DMM will display 0.060 in the V AC mode (x1000 = 60A)			Example 3: 600A Measurement With the DMM to the AC Voltage mode: Clamp set to the 300A range: the clamp output will reach 4500mV (4.5 VAC); this is an over range (overload) condition. Select the higher 3000A range: the clamp output will be 600mV (0.6VAC); DMM will display 0.600 in the V AC mode (x1000 = 600A)

*Multiply DMM reading (in VAC mode) by 10, 100, or 1000, as shown above, to determine the amount of current measured by the clamp

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Certificate of Conformity and ISO-9001 Quality Management System

FLIR Commercial Systems, Inc., an ISO 9001:2008 certified company, hereby certify that our instruments meet or exceed the specifications stated in the user manuals.

This instrument was produced under the stringent guidelines of FLIR Commercial System's certified ISO-9001 Quality Management System from design to delivery. All instruments are calibrated and inspected to meet the stated specifications.

FLIR Commercial Systems, Inc. inspects its incoming shipments using an approved sampling plan with an Acceptable Quality Level (AQL). All incoming inspections are performed using test equipment that is traceable to National Standards. Our ISO-9001 Quality Management System extends to aftermarket support where tested quality procedures are applied to customer support, service, calibration and repair processes.

This instrument will provide years of reliable service when used in accordance with the instructions provided in the User Guide. To have this device certified please contact your local service center.

Quality Assurance Management



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