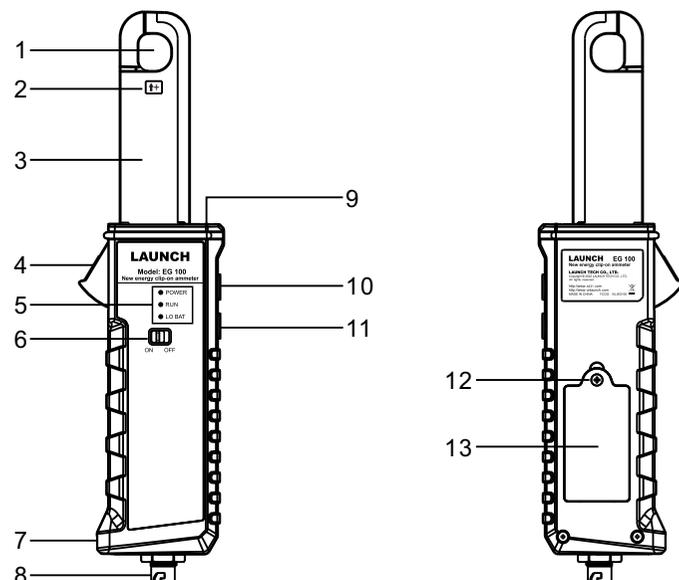


EG100 is a clip-on ammeter specially developed by LAUNCH for the test of new energy vehicles. The clip-on ammeter is small in size, high in precision and stable in performance. It supports AC/DC current test and DC voltage test.

This clip-on ammeter cannot be used alone, it must work together with the "Current Clamp" APP on the diagnostic tool.



1. Jaw ($\phi 16\text{mm} \times 18\text{mm}$)

2. DC current + input indication

When measuring DC current, if the current of the tested wire and the clip-on ammeter are flowing in the same direction, it will be displayed as a positive value, and if it flows in the opposite direction, it will be displayed as a negative value. The relative values of the readings are the same, with positive and negative representing the direction of current flow.

3. Pliers

4. Trigger

Control the opening and closing of the pliers.

5. LEDs

There are three LEDs:

- POWER: Lights up after power on.

- RUN: Flashes when communicating with diagnostic tool wirelessly.

- LO BAT: Battery indicator light. Lights up when the battery is low.

6. Power switch

7. Chain hole

8. Aviation plug

9. Light

10. Light switch

11. ZERO button

When measuring DC current, it is necessary to perform zero adjustment before measurement.

12. Battery cover fixing screws

13. Battery cover

Note: When the clip-on ammeter is not communicating with the diagnostic tool, it will automatically enter sleep mode if no activities are made within about 5 minutes. To conserve battery power, you are suggested to turn it off immediately after using it.

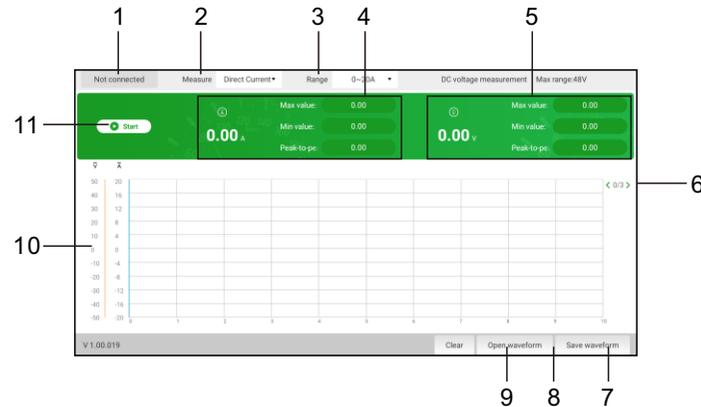
Technical Parameters

Function	DC/AC current test, DC voltage test
Battery	9V 6LR61
Test method	Clamp CT, non-contact measurement
Jaw size	$\phi 16\text{mm} \times 18\text{mm}$ (outer diameter of clamped wire)
Current easurement range	0-200A DC/AC
Resolution	10mA DC/AC
Output range	Full range, digital output
Accuracy	$\pm(3\%+3)\text{FS}$ ($23^\circ\text{C} \pm 5^\circ\text{C}$, below 75%rh)
Phase error	$\leq 3^\circ$ (AC 50Hz/60Hz; $23^\circ\text{C} \pm 2^\circ\text{C}$)
Zero adjustment	ZERO key eliminates the interference of the earth's magnetic field and external electric field
Voltage measurement range	0-48V DC
Lead position	The detected lead is in the center of the jaws
Line voltage	600V and below line test
Working current	50mA

Note: Pictures illustrated here are for reference purpose only. Due to continuing improvements, actual product may differ slightly from the product described herein and this User Manual is subject to change without prior written notice.

Operations

1. Run the “Current Clamp” App on the diagnostic tool, and the following screen will appear:



1. Connection status bar: The connection status with the clip-on ammeter. Tap to switch the status.
2. Measurement type
3. Range selector
4. Current measurement value display area
5. Voltage measurement value display area
6. Page Up/Down key
7. Save waveform: Save the current waveform.
8. Open Waveform: Play back the previously saved waveform.
9. Zero: Tap to zero the clip-on ammeter. This function is the same as that of the “ZERO” button on the clip-on ammeter.
10. Waveform display area
11. Start/Stop: Start/stop measurement.

2. Slide the power switch on the clip-on ammeter to ON, and the power LED lights up.
3. Tap the "Not Connected" button to start searching for the clip-on ammeter, tap the target clip-on ammeter (the default name is EG + the last 7 digits of the product Serial Number) to connect, and the screen will display "Connected" after the connection is successful .
4. Make sure the clip-on ammeter is not in use, press the “ZERO” button on the clip-on ammeter until the reading on the diagnostic tool is 0.

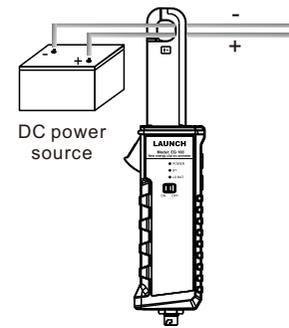
*Note: Zero adjustment can eliminate the influence of external electric field or geomagnetic field on the clip-on ammeter, making the measurement result more accurate. Zero adjustment steps: Firstly place the clamp head close to the tested wire, and the clip-on ammeter induction will output a voltage (interference amount of the external electric field), adjust the ZERO button to zero the interference value, and then clamp the wire. Doing so will make the test result more reliable. After measuring a large current, the clip-on ammeter will have a certain amount of residual magnetism in a short time. If it is used for a small current test immediately, please reset it to zero.

5. Press the trigger to open the clamp jaw, clamp the wire to be measured and tap the “Start” button on the screen to start the measurement.

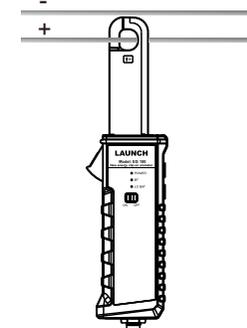
Application Scenerios

Measuring DC (Direct Current)

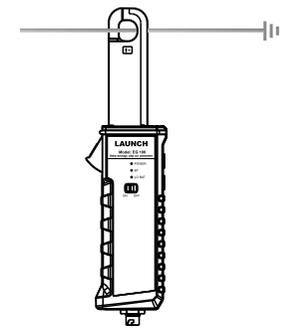
Measuring DC leakage:
Clamp the positive and negative lines of the DC line simultaneously.



Measuring the main circuit current:
Only clamp the main line of the main circuit.

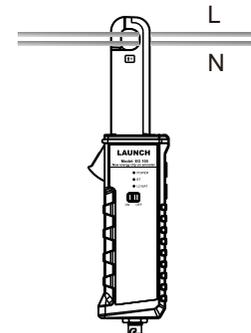


Measuring the leakage current of the earth wire:
Only clamp the earth wire.



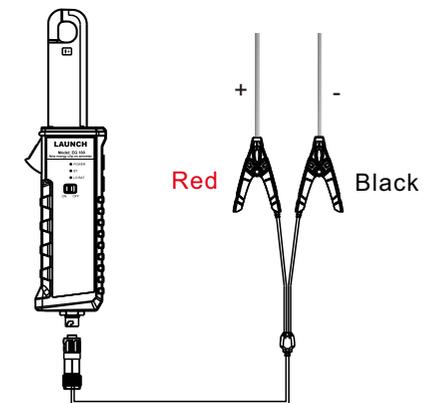
Measuring AC Leakage

Clamp the live and neutral wires of the AC line at the same time.



Measuring DC Voltage (Max. 48V)

Connect one end of the supplied battery clamp to the aviation plug of the clip-on ammeter, and clamp the wire to be tested with the other end.



Replacing Battery

When the battery power is low, the LO BAT LED lights up. Please shut down and replace the battery in time. Use a Phillips screwdriver to open the battery cover when installing the battery. Pay attention to battery polarity to avoid damaging the clip-on ammeter. Please use 9V dry battery for replacement. If the clip-on ammeter is not used for a long time, please remove the battery.

FCC Statement

FCC ID: XUJEG100

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

Note: 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 and, if not installed and used in accordance with the instructions, may cause 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.

This device must not be co-located or operating in conjunction with any other antenna or transmitter. This device complies with RF radiation exposure limits set forth for an uncontrolled environment and has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.