



LECTRON Energy Meter 100 Amp Power Consumption Meter User Manual

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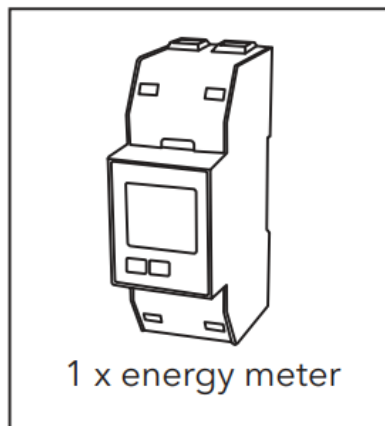
LECTRON Energy Meter 100 Amp Power Consumption Meter



About the Lectron Energy Meter

The Lectron Energy Meter allows you to measure how much electricity is used by your Lectron V-BOX Charging Station.

In the Box



Warnings

1. During normal operation, hazardous voltages may be present in some of the terminals of this unit. Always use with caution.
2. Ensure all parts are de-energized before attempting to connect.
3. Never touch or adjust terminals after installation.
4. Only install in a dry and safe environment.

Disclaimer

1. Installation should only be done by a qualified professional, following all local regulations.

2. This energy meter should never be used as the sole means of fault protection.
3. Install this energy meter after your main power supply.
4. Only use this energy meter with the Lectron V-BOX charging station.

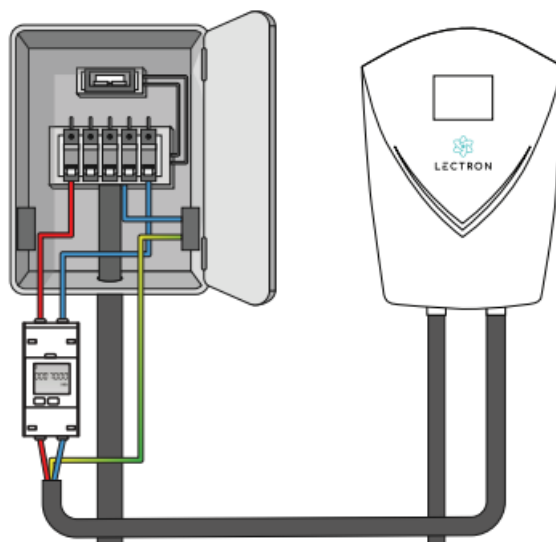
LCD Display



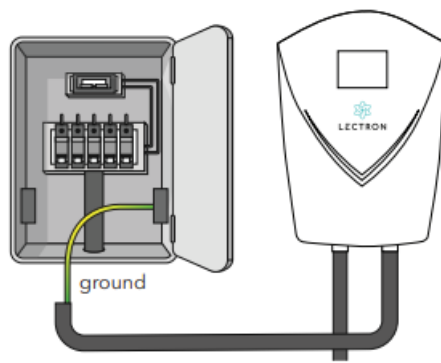
1. energy measurement value
2. total value
3. import / export energy
4. maximum demand (loading current)
5. PF (power factor); Hz (frequency)
6. measurement of kVArh (reactive power)
measurement of kWh (active power)
7. power level
8. time/duration
9. lock device

How to Install

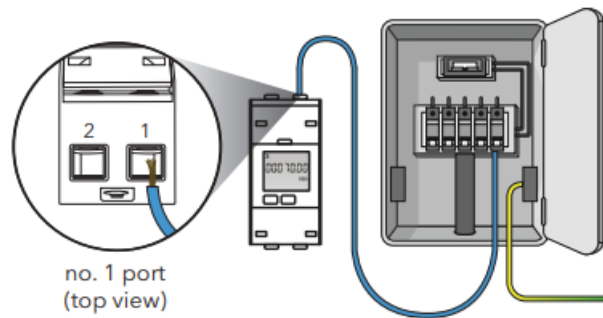
Install the energy meter by connecting it between your electrical panel and your V-BOX.



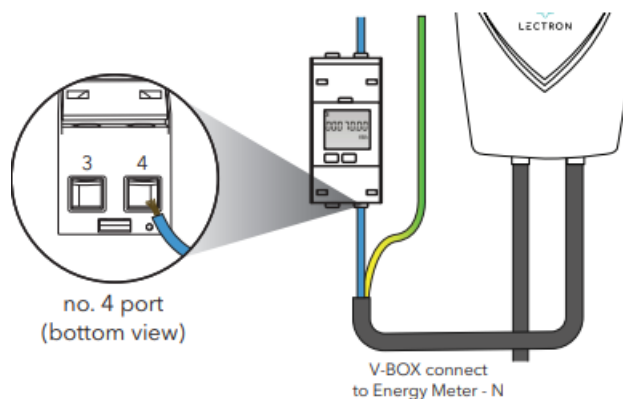
1. Connect the ground wire from the electrical panel to the V-BOX.



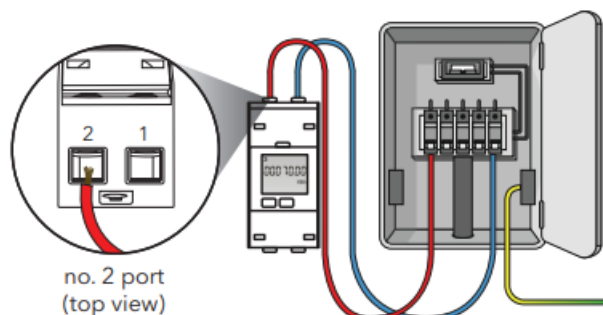
2. Insert the neutral wire from the electrical panel into the no. 1 port at the top of the energy meter. Flip open the top compartment and tighten the screw using a Phillips screwdriver (not included).



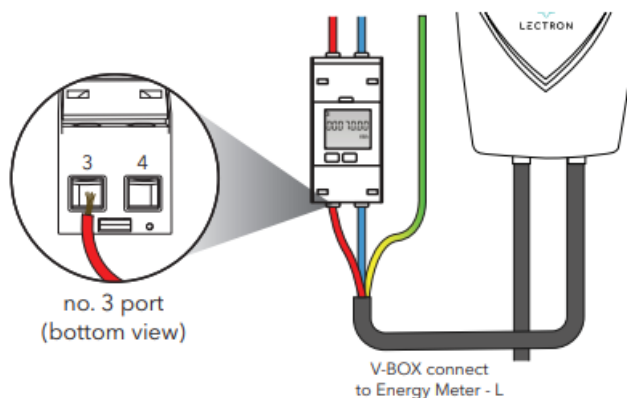
3. Insert the neutral wire from the V-BOX into the no. 4 port at the bottom of the energy meter. Flip open the bottom compartment and tighten the screw.



4. Insert the live wire from the electrical panel into the no. 2 port at the top of the energy meter. Tighten the screw and close the compartment.



5. Insert the live wire from the V-BOX into the no. 3 port at the bottom of the energy meter. Tighten the screw and close the compartment.



Scrolling Between Functions





Click the scroll button to go through the functions, and press the enter button to select the function.

Buttons:

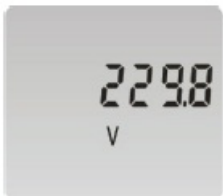







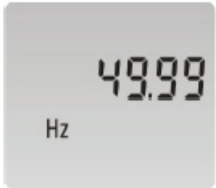


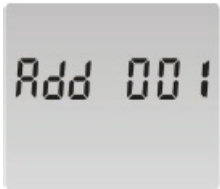
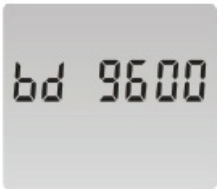

Note: When the energy meter is powered on, it will initiate a self check. After that, it will display the total kWh (active power).

1. total kWh
2. import kWh
3. export kWh
4. resettable kWh
5. total kVArh
6. import kVArh
7. export kVArh
8. resettable kVArh
9. max power demand
10. voltage
11. current
12. W (watt)
 - * speed of data exchange
13. VAr (volts-amps reactive)
14. VA (volt-ampere)
15. power factor
16. frequency
17. DI 1 (digital input)
18. DI 2
19. modbus ID
20. baud rate*
21. continuous running time

Order	Display (example)	Function / Description
1		total active energy
2		import active energy
3		export active energy
4		total resettable energy


5		total reactive energy
6		import reactive energy
7		export reactive energy
8		total resettable reactive energy
9		total max. power demand

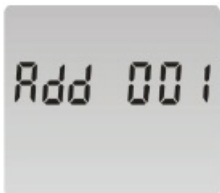

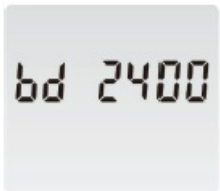
10	 <p>A digital display showing the value 2298 with the unit V below it.</p>	voltage
11	 <p>A digital display showing the value 30.156 with the unit A below it.</p>	current
12	 <p>A digital display showing the value 4700 with the unit W below it. A battery level indicator is visible in the bottom left corner.</p>	active power
13	 <p>A digital display showing the value 1030 with the unit VAr below it. A battery level indicator is visible in the bottom left corner.</p>	reactive power
14	 <p>A digital display showing the value 4811 with the unit VA below it. A battery level indicator is visible in the bottom left corner.</p>	apparent power




15		power factor
16		frequency
17		DI 1 -counting
18		DI 2 -counting
19		modbus address
20		baud rate
21		continuous running time (in total)




Setup Mode

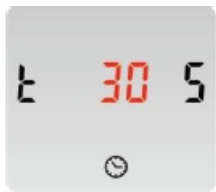
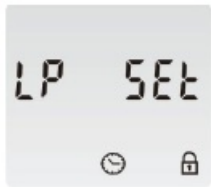
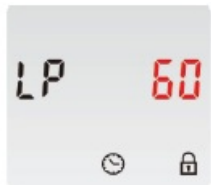
To go into setup mode and adjust the settings of your energy meter, press and hold the “enter” button for 3 seconds.





Order	Display (example)	Value / Description
1		<p>Password</p> <p>You will first be asked to enter a password.</p> <p>The Default password is: 1000</p>




2		<p>Address ID Default ID is 001 Range: 001 – 247</p>
2.1		<p>Press the “enter” button and the red digit will flash.</p> <p>Press the “scroll” button to change the value.</p> <p>Then, press and hold the “enter” button to confirm.</p>
3		<p>Baud rate</p> <p>Default value: 2400bps Range: 1200, 2400, 4800, 9600, 19200 bps.</p>

3.1		<p>Press the “enter” button and the red digit will flash.</p> <p>Press the “scroll” button to change the value.</p> <p>Then, press and hold the “enter” button to confirm.</p>
4		<p>Parity</p> <p>Default: None Option None, Even, Odd</p>
4.1		<p>Press the “enter” button and the red digit will flash.</p> <p>Press the “scroll” button to change the parity option. Then, press and hold the “enter” button to confirm.</p>

5		<p>Demand Integration Time*</p> <p>Default: 15 minutes Option: OFF / 5 / 10 / 15 / 30 / 60 min</p> <p>*energy consumption period</p>
5.1		<p>Press the “enter” button and the red digit will flash.</p> <p>Press the “scroll” button to change the DIT option. Then, press and hold the “enter” button to confirm.</p>
6		<p>Automatic Scroll Time Interval</p> <p>Default: 0 seconds</p> <p>Option: 0 – 30 sec</p>

6.1		<p>Press the “enter” button and the red digit will flash.</p> <p>Press the “scroll” button to change the time interval option. Then, press and hold the “enter” button to confirm.</p>
7		<p>Backlight duration: Default: 60 minutes Option: OFF / 5 / 10 / 20 / 30 / 60 min</p> <p>Press and hold the “enter” button to adjust backlight duration.</p>
7.1		<p>Press the “scroll” button to change the backlight duration. Then, press and hold the “enter” button to confirm.</p>

8		<p>Clear</p> <p>Press and hold the “enter” button to clear the interface.</p>
8.1		<p>To clear the max demand of active power, press and hold the “enter” button.</p>
8.2		<p>To clear the resettable energy, press the “scroll” button to go into the energy reset page. Then, press and hold the “enter” button to confirm.</p>
9		<p>Password</p> <p>Default: 1000</p>

9.1		<p>Resetting the Password Press the “enter” button and the red digit will flash.</p> <p>Press the “scroll” button to change the value.</p> <p>After selecting a new password, press and hold the “enter” button to confirm.</p>
10		<p>DI- filtering time</p> <p>Default: 100 mS</p>
10.1		<p>Press the “enter” button and the red digit will flash.</p> <p>Press the “scroll” button to change the value.</p> <p>After selecting a new filtering time, press and hold the “enter” button to confirm.</p>

Specifications

- **Voltage:** 100 – 240 V AC
- **Frequency:** 50 / 60 Hz (±10%)
- **Base current:** 10 A
- **Maximum current:** 100 A
- **Display:** LCD with white backlight
- **Maximum reading:** 999999.9 kWh / kVArh
- **Power consumption:** <2W / 10VA
- **Operating temp:** -13 °F to 158 °F
- **Weatherproof rating:** IP51 (indoor)
- **Dimensions:** 14.2 x 39 x 25 in
- **Certification:** UL94



Get More Support

Scan the QR code below or email us at: contact@ev-lectron.com





www.ev-lectron.com

Documents / Resources

<p>Energy Meter <small>User Manual</small></p>  <p></p>	<p>LECTRON Energy Meter 100 Amp Power Consumption Meter [pdf] User Manual Energy Meter 100 Amp Power Consumption Meter, Energy Meter, 100 Amp Power Consumption Meter, Consumption Meter, Meter</p>
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References

-  [Full Stack Metaverse Solutions - Llectron](#)
-  [Llectron Electric Vehicle Charging — Llectron EV](#)