

# HandsOn Technology MDU1104 1-8 Cell Lithium Battery Level Indicator Module-User Configurable User Guide

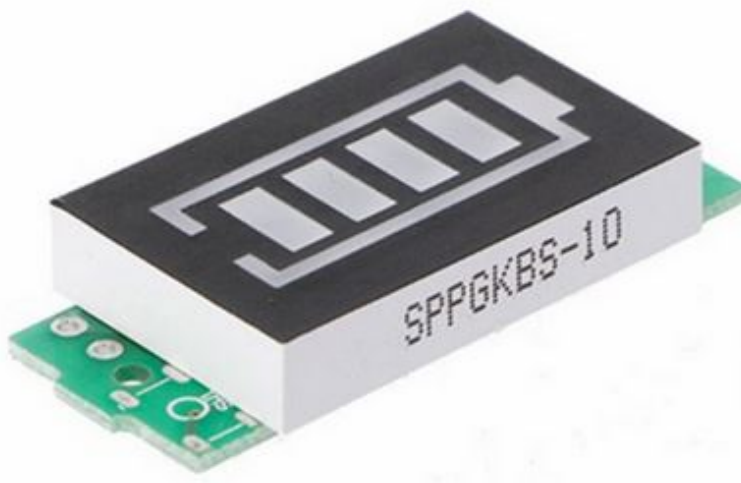
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**Handson Technology**

**HandsOn Technology MDU1104 1-8 Cell Lithium Battery Level Indicator Module-User Configurable**



## Product Information

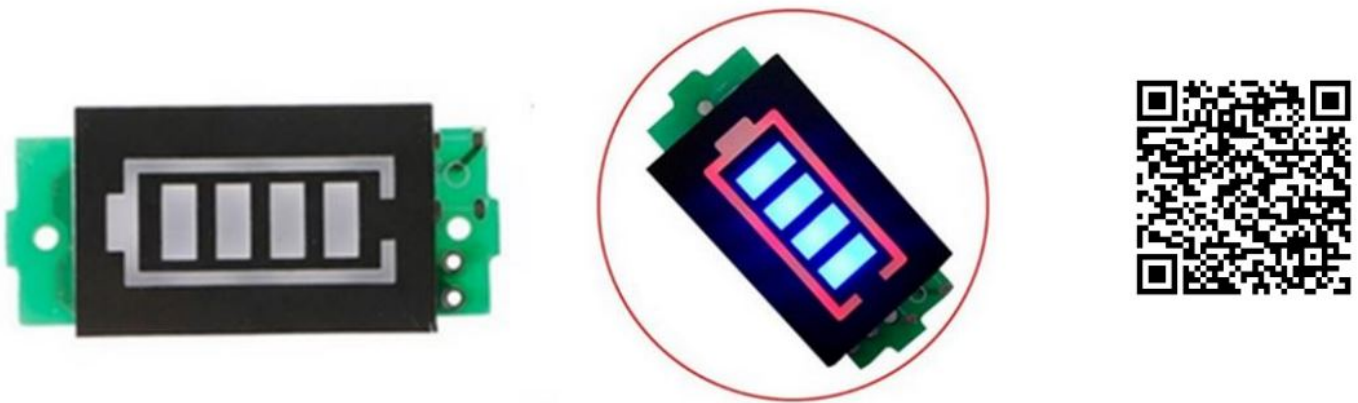
The HandsOn Technology Lithium Battery Level Indicator is a compact and user-configurable device that can measure the capacity level of 1 to 8 cell lithium batteries. It features a blue LED 4-segment display that shows the battery level and can be configured using jumper pads. The device has a green/blue display color, and its dimensions are 45 x 20 x 8 mm (L x W x H). It weighs 5g and has an operating temperature range of -10~65. The jumper pads can be used to select the number of cells to be measured, as shown in Table-1. Only one pad should be shorted at a time to measure from 1 to 8 cells. The device can be easily connected to a lithium battery pack with just 2 wires.

**SKU:** MDU1104

## Product Usage

1. First, determine the number of cells in your lithium battery pack.
2. Refer to Table-1 to identify the appropriate jumper pad setting for the number of cells in your battery pack.
3. Short the corresponding jumper pad to configure the device for the desired number of cells.
4. Connect the device to your lithium battery pack using 2 wires. The red wire should be connected to the positive terminal, and the black wire should be connected to the negative terminal.
5. The blue LED 4-segment display will show the battery level based on the number of cells in your battery pack and the jumper pad setting.
6. Disconnect the device from your lithium battery pack when not in use.

Lithium battery capacity level indicator for 1 to 8 cells, user configurable with jumper pad set. Compact design with blue LED 4-segment display. Simple connection with 2-wires to the lithium battery pack.



**SKU:** MDU1104

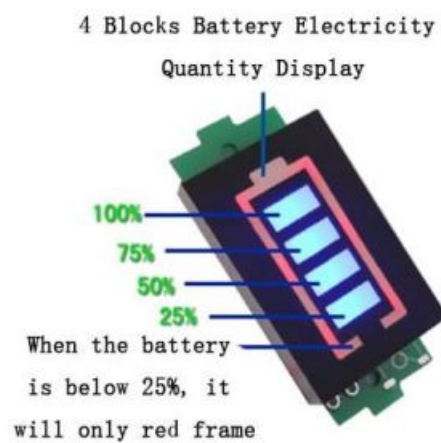
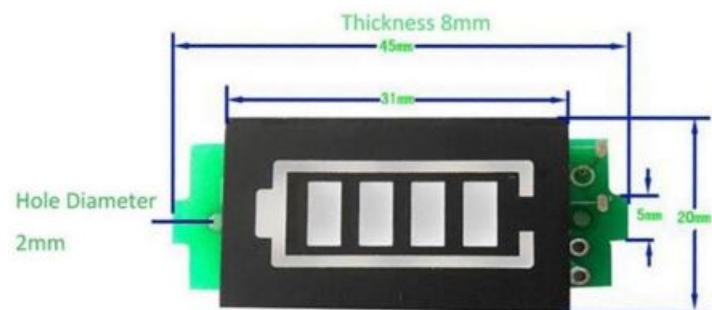
## Brief Data

- **Number of Cell:** 1~8S.
- **Battery Level Indicator Range:** User configurable with jumper pad setting.
- **Indicator Type:** 4 Bar-graph.
- **Display Color:** Green/Blue.
- **Dimensions:** 45 x 20 x 8 mm (L x W x H).
- **Mounting Hole:** M2 Screw.

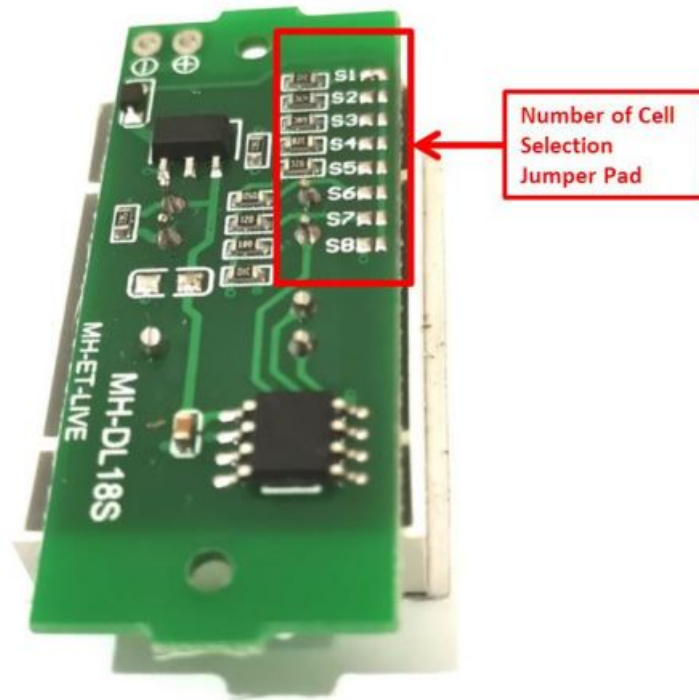
- **Operating Temperature:** -10°C~65°C.
- **Weight:** 5g.

## Mechanical Dimension

**Unit:** mm



## Jumper Pad Setting

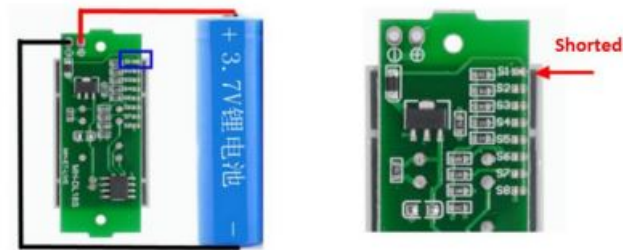
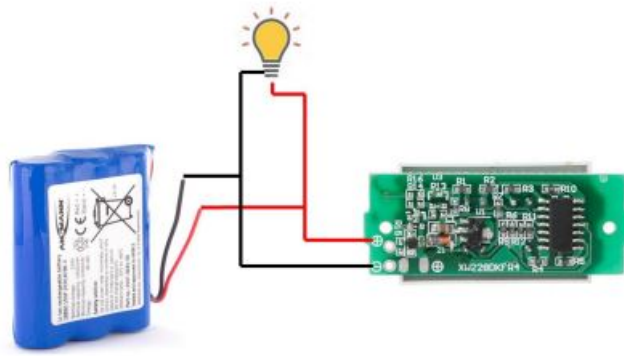


Shorting one of the jumper pad to select number of cells to be measured. Only one pad to be shorted at a time to measure from 1 to 8 cells as the table-1 below.

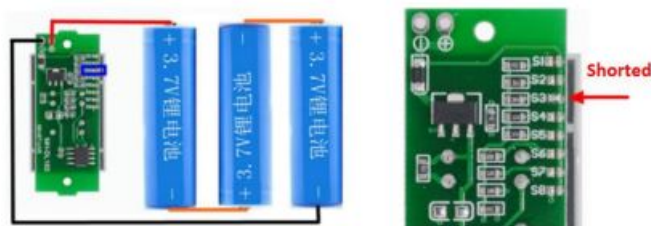
	25%	50%	75%	100%
<b>1S</b>	3.3V	3.5V	3.7V	3.9V
<b>2S</b>	6.6V	7.0V	7.4V	7.8V
<b>3S</b>	9.9V	10.5V	11.1V	11.7V
<b>4S</b>	13.2V	14V	14.8V	15.6V
<b>5S</b>	16.5V	17.5V	18.5V	19.5V
<b>6S</b>	19.8V	21V	22.2V	23.4V
<b>7S</b>	23.1V	24.5V	25.9V	27.3V
<b>8S</b>	26.4V	28V	29.6V	31.2V

**Table-1: 1~8 Cells measurement range**

## Connection Example



1x Cell Jumper Setting



3x Cell Jumper Setting

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- HandsOn Technology support Open Source Hardware (OSHW) Development Platform.
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## Documents / Resources

A thumbnail image of the user guide for the MDU1104 module, showing the module itself and some text.	<p><a href="#">HandsOn Technology MDU1104 1-8 Cell Lithium Battery Level Indicator Module-User Configurable [pdf] User Guide</a></p> <p>MDU1104 1-8 Cell Lithium Battery Level Indicator Module-User Configurable, MDU1104, 1-8 Cell Lithium Battery Level Indicator Module-User Configurable, Battery Level Indicator Module-User Configurable, Level Indicator Module-User Configurable, Indicator Module-User Configurable, Module-User Configurable, Configurable</p>
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## References

- [HandsOn Tech – Open Source Electronics Platform](#)
- [Arduino Boards – HandsOn Tech](#)
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Manuals+.