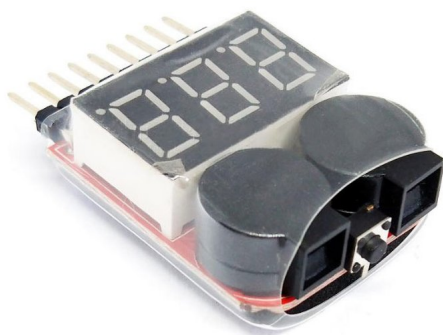




Voltage Checker 1-8S

Voltage checker for 1-8 cells with alarm
User manual



Read the entire manual before first use and keep it for future reference.

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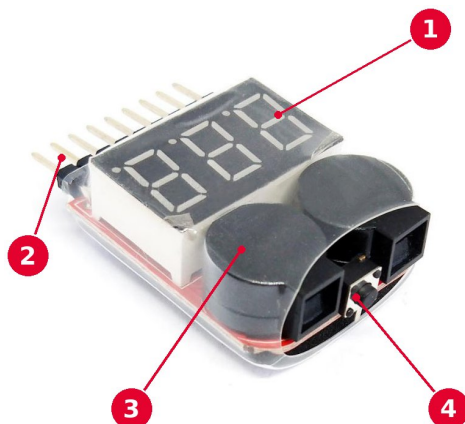
1. Product description

1.1 Intended use

The voltage checker is a small device for checking multi-cell batteries with 1 to 8 cells (1S-8S). When connected to the battery's **balance connector**, it shows the voltage of the individual cells on its display.

When the voltage drops below the set value, it sounds an **audible alarm**. It helps you quickly determine the state of charge of the battery, detect an unbalanced or faulty cell and stop operation in time, before the battery is over-discharged.

1.2 Parts of the product



Voltage checker 1-8S with alarm

- ① Display – shows the measured voltage.
- ② Pin header – connection of the battery's balance connector.
- ③ Buzzer – audible low-voltage alarm.
- ④ Button – operation of the device and setting of the alarm value.

1.3 Technical data and package contents

Number of battery cells	1-8 (1S-8S)
Connection	battery balance connector
Function	display of individual cell voltages, audible alarm when the voltage drops below the set value
Dimensions	39 × 24 × 9 mm
Weight	9 g
Package contents	1× voltage checker
Not included	battery, charger
Product designation	Voltage checker for 1-8 cells with alarm

2. Use

2.1 What you will need

- A battery with 1 to 8 cells (1S-8S) fitted with a balance connector – typically a Li-Po or LiHV battery for FPV drones and RC models.
- The checker has no battery of its own – it is powered by the battery it is connected to.

2.2 Measuring cell voltages

- ① Check that the balance connector and its wires are not damaged.
- ② Plug the battery's balance connector onto the pin header ② in the **correct orientation** according to the marking on the product's board – the negative wire of the balance connector (usually black) must be on the negative pole side. Push the connector on straight and without force.
- ③ Once connected, the display ① shows the voltage of the individual cells.
- ④ When you have finished measuring, disconnect the checker from the battery. Hold the connector by its body, do not pull on the wires.

A connector plugged in reversed or shifted by one pin can damage both the checker and the battery. Always check the orientation before connecting.

2.3 Evaluating the measured values

For Li-Po and LiHV batteries, use the following guide values of voltage per cell:

State	Li-Po	LiHV
Fully charged	4.20 V/cell	4.35 V/cell
End operation (flight)	3.5 V/cell	3.5 V/cell
Storage	3.8 V/cell	3.8 V/cell

The voltage of the whole battery is the voltage per cell multiplied by the number of cells – e.g. a 3S Li-Po battery is fully charged at 12.6 V; end operation at 10.5 V and store it at 11.4 V.

- If the cells have significantly different voltages, the battery is unbalanced. Charge it with a balance charger.
- If one cell repeatedly differs significantly from the others, or if the battery is swollen or damaged, stop using it.

2.4 Audible alarm

If the voltage drops below the set value, the checker sounds an alarm with the buzzer ③. The alarm value is set with the button ④. We recommend choosing it so that the alarm sounds before the voltage of any cell drops below 3.5 V.

You can leave the checker connected to the battery while the model is in operation – the alarm tells you it is time to stop. When the alarm sounds, end operation as soon as possible and disconnect the battery.

2.5 Safety and care

- The product is intended for persons aged 14 and over.
- Do not connect the checker to a battery with more than 8 cells or to any voltage source other than a battery balance connector.
- The checker is powered by the battery and draws current from it. Disconnect it after measuring and do not leave it connected to a battery in storage.
- Make sure the header pins do not touch metal objects so that no short circuit occurs.
- Protect the product from moisture, dust, direct sunlight and impacts. Do not use it if it is damaged.
- When handling Li-Po and LiHV batteries, follow their manufacturer's instructions. Do not use a damaged, swollen or overheated battery.
- If the product is used when operating a drone or another model, comply with the regulations of the country in which you operate the model – the law of the country of operation is decisive.

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

3.2 Product conformity



- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorاما.cz.
- **Product designation:** Voltage checker for 1-8 cells with alarm (1-8S).

3.3 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste.**
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also <https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu>.

4. Warranty and rights arising from defective performance

4.1 Rights of the buyer under Czech law

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.