



ToolkitRC M8P

User manual

Multifunctional balance charger 600 W / 20 A, 1-8S



Read the entire manual before use. Input voltage 7.0-35.0 V DC - pay attention to the correct polarity. Never leave charging batteries unattended.

Version 1.0 · Rotorama, s.r.o.

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1. Introduction and safety instructions

Thank you for purchasing the **ToolkitRC M8P** multifunctional balance charger (hereinafter M8P). Please read this manual carefully before use and keep it.

1.1 Manufacturer's instructions

- ① The M8P allows an input voltage of **DC 7.0-35.0 V**. Ensure the charger is only connected to a suitable power source and with the **correct polarity**.
- ② Do not use this product in hot, humid, flammable or explosive environments.
- ③ Do not use this charger without supervision. **Never leave charging batteries unattended.**
- ④ When not using this product, unplug the input power.
- ⑤ When using the charging function, set a current that matches the battery. Do not set an excessive charging current to avoid damage to the battery. Follow the guidelines of your battery's manufacturer.

1.2 Safe battery charging

- Before charging, always check the **battery type** and **cell count** setting – an incorrect setting may cause a fire.
- Only charge rechargeable batteries of the supported types (Chapter 4.1). **Never charge non-rechargeable (primary) cells** or swollen or otherwise damaged batteries.
- Charge in a well-ventilated place, on a stable non-flammable surface or in a fireproof battery bag, away from flammable materials.
- If a battery starts to overheat or swell, stop the process immediately and disconnect the battery.
- The product is intended for persons aged 14 and over. Keep it out of the reach of children.

1.3 Power supply, outputs and auxiliary functions

- Connect the power supply only to the **INPUT DC 7-35 V** port. The power source must provide sufficient power for the set charging current.
- When powering the M8P from a battery in the **Recycle** discharge mode, always set the **Max input voltage** correctly (Chapter 4.5).
- The USB-A output (5.0 V / 2.1 A) is used to power and charge small devices and to upgrade the firmware. Do not connect any power source to it.
- During the ESC test and when outputting a control signal to an electronic speed controller (ESC) or a servo, **always remove the propellers first** and secure the model against movement.

2. Product description

The M8P is a multifunctional tool that integrates functions such as a balance charger and discharger, a signal measuring device and a signal source.

- Charges, discharges and balances (where applicable) LiPo, LiHV, LiFe, Li-ion and LTO 1-8S, NiMH 1-20S and Pb 1-10S batteries.
- Charge current up to **20 A**, power up to **600 W**.
- Discharge current: Recycle / External mode up to 20 A at 600 W, internal mode up to 3 A at 20 W.
- Adjustable cut-off voltage of lithium batteries (TVC function).
- Measures battery voltage and internal resistance, balances lithium packs automatically.
- Measures / outputs PWM / PPM / SBUS standard signals with an accuracy of 1 μ s.
- Constant voltage and constant current source output: adjustable voltage 1-35 V and current 1-20 A.
- Can be used for charging consumer-grade drone batteries.
- Multi-language user interface, easily upgradable via USB.

2.1 Controls and connectors



Front

- ① Display
- ② **[Exit]** button – back / auxiliary functions
- ③ **[Scroll Wheel]** – rotate and press
- ④ Output port (battery connection)
- ⑤ Balance port (2-8S)
- ⑥ Signal port (servo signal)



Back

- ⑦ USB-A output
- ⑧ Power input port (INPUT DC 7-35 V)
- ⑨ Cooling fan

► Operation

Rotate the **[Scroll Wheel]** to move the cursor and change values, **short press** it to confirm, **press and hold** it to open the system settings. A short press of the **[Exit]** button returns one level back, pressing and holding it opens the auxiliary functions.

2.2 Packing list

Item	Qty
ToolkitRC M8P charger	1×
USB cable	1×
Quick Manual	1×
Screen protector	1×

❖ **The power supply and the charging and balance leads are not included.**

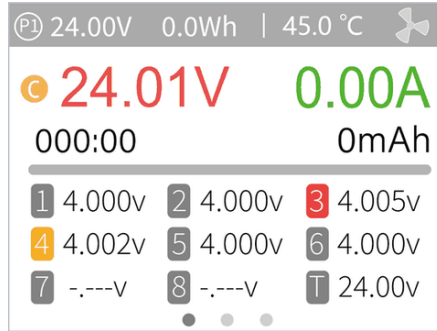
2.3 Manufacturer and further information

Manufacturer	ToolkitRC Technology (Shenzhen) Co., Ltd
Address	3F, B1 Building, Shanghe Industrial Park, Nanchang Road, Hangcheng Street, Bao'an District, Shenzhen, China
E-mail	sales@toolkitrc.com
Web	www.toolkitrc.com

News, information and firmware updates for the M8P can be found at download.toolkitrc.com/m8p. Newer firmware versions may add functions and menu items that are not described in this manual.

3. Quick start

- ① Connect the 7-35 V power supply to the input port on the back of the M8P.
- ② The display shows the boot logo for 2 seconds.
- ③ A welcome sound (voice pack dependent) is played simultaneously.
- ④ After booting up, the main screen is displayed:



Main screen

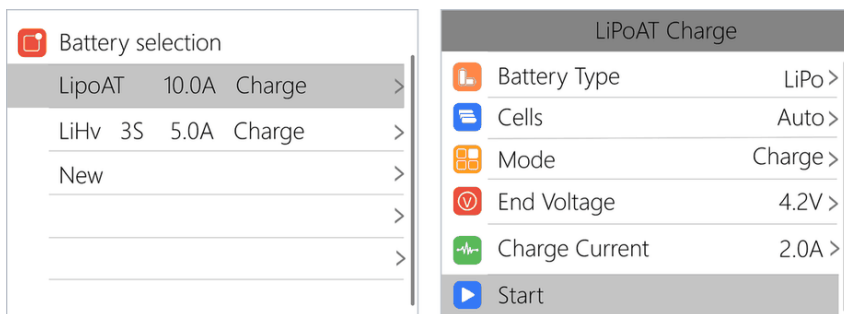
- ⑤ Press and hold **[Exit]** to enter the auxiliary functions (Chapter 5).
- ⑥ Rotate the **[Scroll Wheel]** to switch between pages.
- ⑦ With the charger idle, short press the **[Scroll Wheel]** to set the charging parameters. During charging, short press the wheel to adjust the current or stop the charging process.
- ⑧ With the charger idle, press and hold the **[Scroll Wheel]** to enter the system settings (Chapter 6).
- ⑨ Short press **[Exit]** to return to the previous screen.

4. Charging and discharging

On the main screen, short press the **[Scroll Wheel]** to enter the charging function. If the battery selection option (*Battery selection*) is enabled in the system settings, the list of saved batteries is displayed.

4.1 Battery type

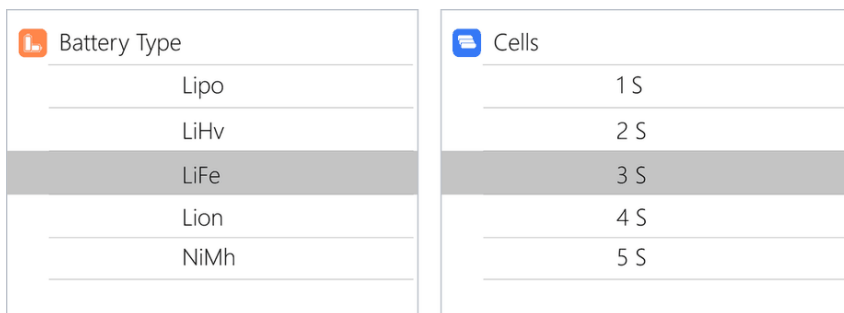
Rotate the wheel and select one of the presets, or create a new battery (**[New]**). Up to **32 battery files** can be created. Short press the wheel to enter the settings of the selected battery.



Left: battery selection, right: battery settings

Move the cursor to **[Battery Type]** and short press the wheel to change the battery type. The charger supports charging and discharging of LiPo, LiHV, LiFe, Li-ion (Lion), LTO, NiMH and Pb batteries; a smart drone battery mode is also available (Chapter 4.11). After selecting the battery type that matches the battery being charged, press the wheel and **[Exit]** to save and return to the main screen.

Warning: Always ensure the correct battery type has been selected prior to charging - an incorrect choice may damage the battery and/or become a fire hazard. Do not charge non-compatible battery chemistries.



Left: battery type, right: cell count (Chapter 4.2)

► Glossary of battery types

- ① **LiPo** – lithium polymer battery; nominal voltage 3.70 V, fully charged 4.20 V per cell.
- ② **LiHV** – high-voltage lithium battery; nominal voltage 3.85 V, fully charged 4.35 V per cell.
- ③ **LiFe** – lithium iron phosphate battery; nominal voltage 3.30 V, fully charged 3.60 V per cell.
- ④ **Li-ion** (Lion) – lithium-ion battery; nominal voltage 3.60 V, fully charged 4.10 V per cell.
- ⑤ **LTO** – lithium titanate battery; nominal voltage 2.40 V, fully charged 2.70 V per cell.
- ⑥ **NiMH** – nickel-metal hydride battery; nominal voltage 1.20 V per cell.
- ⑦ **Pb** – lead-acid battery; nominal voltage 2.00 V per cell.

4.2 Cell count

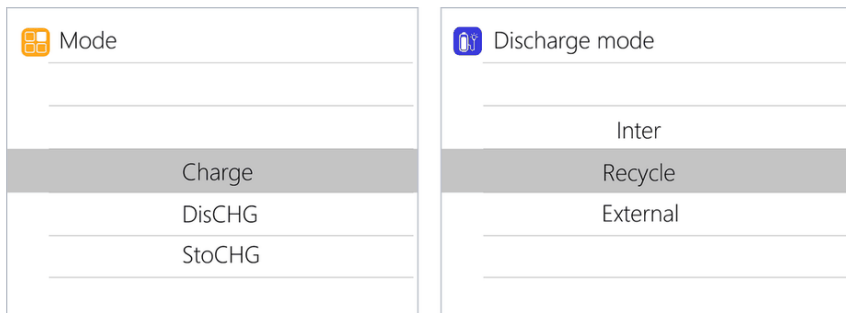
Move the cursor to **[Cells]** and short press the wheel to change the number of cells; rotate the wheel to adjust the value. When set to **[Auto]**, the charger identifies the number of cells automatically by checking the total voltage against the balance port data. Short press the wheel and **[Exit]** to confirm and return.

✳ Tips

- If the connected battery is over-discharged or over-charged, the charger may determine an incorrect cell count. In this case, set the cell count manually.
- An incorrectly set cell count may lead to overcharging, which presents a fire risk.
- The cell count can be determined more accurately if the balance port is connected.

4.3 Work mode

Move the cursor to **[Mode]** and short press the wheel to change the work mode. LiPo, LiHV, LiFe, Li-ion and LTO batteries can be charged (*Charge*), discharged (*DisCHG*) and stored (*StoCHG*). NiMH batteries can be charged, discharged or cycled. Pb batteries can be charged and discharged. Short press the wheel and **[Exit]** to confirm and return.



Left: work mode, right: discharge mode (Chapter 4.4)

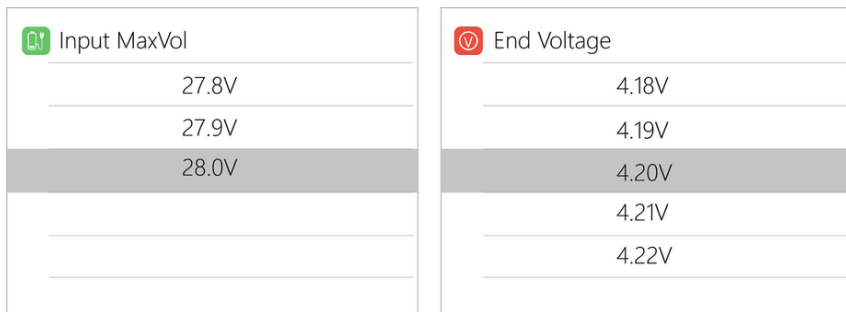
4.4 Discharge mode

In the discharge, storage and cycle modes, the discharge mode option appears. Move the cursor to **[Discharge Mode]** and short press the wheel to change it. The charger supports three discharge modes:

- ① **Normal / Inter** (internal) – discharge using internal heat dissipation, max. 3.0 A at 20 W.
- ② **Recycle** – when a battery is used as the input, the energy is recovered to the input battery; max. 20.0 A at 600 W.
- ③ **External** – the input port is connected to a discharge load and the output port to the battery, the battery is discharged into the external load; max. 20.0 A at 600 W.

4.5 Max input voltage

When the **Recycle** discharge mode is selected, the Max input voltage option appears. Move the cursor to **[Max Input Vol.]** and short press the wheel to adjust the value. If the input voltage reaches this value during discharge, the discharge stops.



Left: max input voltage, right: end voltage (Chapter 4.6)

❖ Tip

- Set the Max input voltage to the highest protection voltage of the power supply (input battery). When it is reached, the charger automatically stops the recycling discharge. Setting the voltage too high may damage the input power source.

4.6 End voltage (TVC)

Move the cursor to **[End Voltage]** and short press the wheel to change the end voltage of the individual cells. When charging, it is the charge cut-off voltage, adjustable within ± 50 mV of the full voltage. When discharging, it is the discharge cut-off voltage. Rotate the wheel to adjust the value in steps of 0.01 V.

❖ Tips

- Only LiPo, LiHV and LiFe batteries can set the cut-off voltage.
- Do not modify the cut-off voltage if you are not familiar with the battery characteristics.
- The charging cut-off voltage can be set within ± 50 mV of the full voltage.
- **TVC** - abbreviation for *Terminal Voltage Control*.

4.7 Charge and discharge current

Move the cursor to **[Charge Current]** or **[DisCHG Current]** and short press the wheel to change the current. Rotate the wheel to adjust the value in steps of 0.1 A; rotate it quickly to change the value faster. The charge current can be set up to **20.0 A**.

	DisCHG Current
	1.8A
	1.9A
	2.0A
	2.1A
	2.2A

	Nixx Peak
	5mv
	6mv
	7mv
	8mv
	9mv

Left: discharge current, right: NiMH peak (Chapter 4.8)

❖ Tips

- Set a charging rate of 1–2 C according to the battery capacity. For example, for a 2000 mAh battery, set the charge current to 2.0–4.0 A.
- The charge / discharge current is only valid in the corresponding work mode.
- For the discharge mode setting, see Chapter 4.4.

4.8 NiMH setting (PeakV)

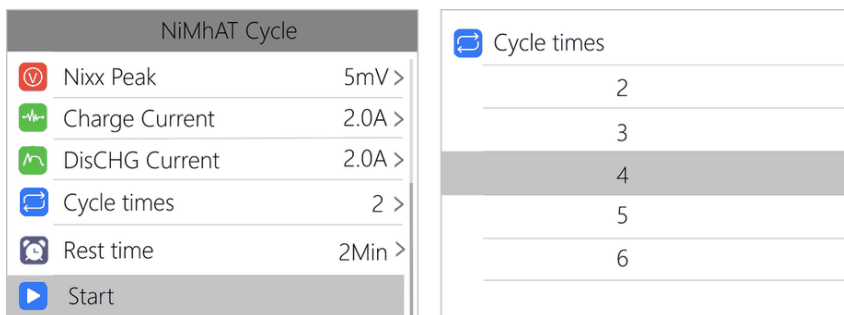
When the battery type is NiMH, the peak voltage drop at which the charger detects a full charge can be set. The setting range is **5-15 mV**.

✳ Tips

- This function is only available for NiMH batteries.
- **PeakV** - the maximum voltage drop per cell when the nickel-metal hydride battery is fully charged.

4.9 Cycle setting

When the battery type is NiMH and the cycle mode is selected, the options **[Cycle times]** and **[Rest time]** appear.



Left: NiMH cycle settings, right: cycle times

Move the cursor to **[Cycle times]** and short press the wheel to set the number of cycles in the range of **2-12**. The charger follows the pattern discharge → charge → discharge → charge...; one “discharge → charge” pair counts as two cycles.

Move the cursor to **[Rest time]** and short press the wheel to set the rest time between cycles in the range of **2-10 minutes**.



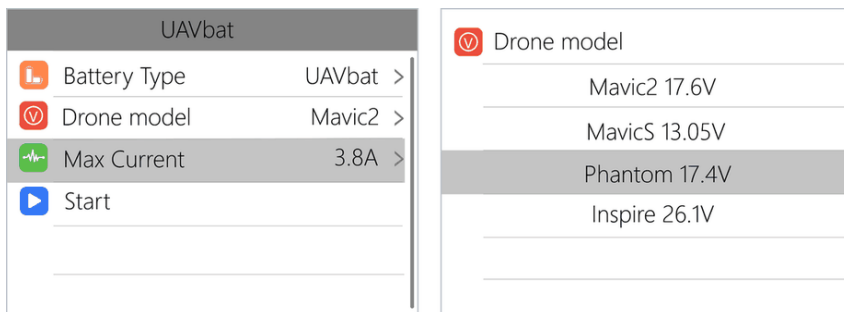
Left: rest time, right: external load (Chapter 4.10)

4.10 External load setting

When external discharge (*External*) is selected as the discharge mode, the external load setting appears. Set the wattage according to the external load used.

4.11 Smart drone batteries

When a smart drone battery (**UAVbat**) is selected as the battery type, there are only two options: drone model and max current.

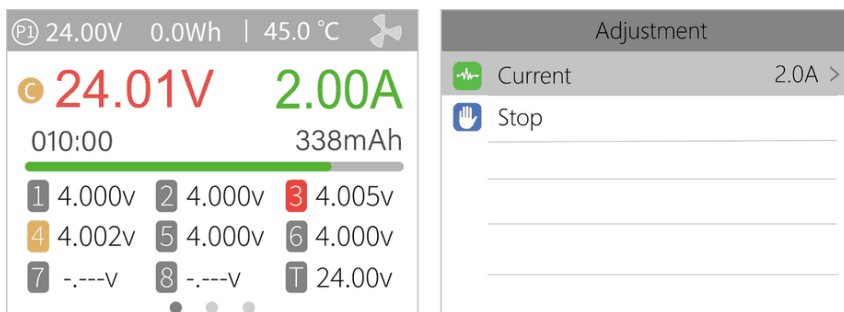


Left: smart battery settings, right: drone model

Move the cursor to **[Drone model]** and short press the wheel to select the drone model. Move the cursor to **[Max Current]** and short press the wheel to set the charge current in the range of **0.5-20 A**.

4.12 Charging and discharging in progress

When charging or discharging starts, the working screen is displayed. Rotate the wheel to toggle between three pages.



Left: working screen, right: current adjustment / stop

P1 – power source selected in the system settings

24.01 V – input voltage; **0.0 Wh** – accumulated energy

45.0 °C – internal temperature of the charger

V – constant voltage mode; **C** – constant current mode

24.01 V / 2.00 A – main (output) port voltage and current

010:00 – working time; **338 mAh** – charged capacity

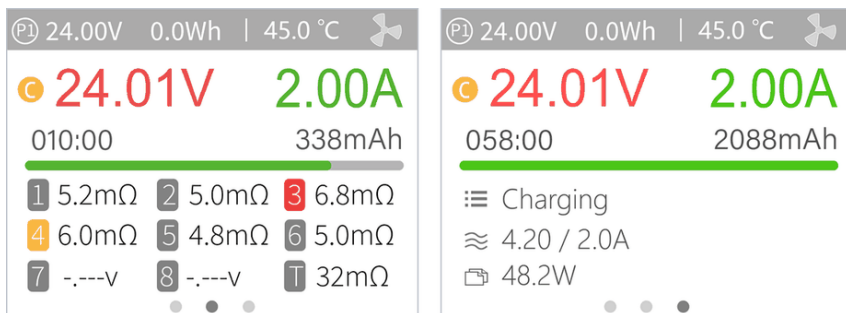
1 4.000 V ... – voltage of the first and further cells

T 24.00 V – total voltage measured at the balance lead

-.---V – no cell connected

A short press of the wheel during operation lets you change the charge current or stop charging: move the cursor to **[Stop]** and short press the wheel – charging stops and the main screen is displayed. When charging is complete or an error occurs, a pop-up appears along with an audible tone.

The second page shows the internal resistance of the cells, the third page shows general information.



Left: internal resistance of cells, right: general information

1 5.2 mΩ ... – internal resistance of the first and further cells; **T 32 mΩ** – total internal resistance

Charging – current status (charging)

4.20 / 2.0 A – end voltage / charge current

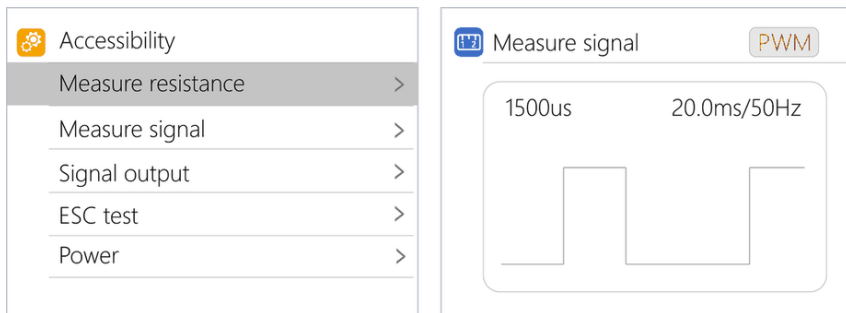
48.2 W – current charging power

✳ Tips

- Never leave batteries unattended while charging and discharging.
- Lithium batteries are only balanced if the balance plug is connected. Once the charger detects a balance plug, it balances each cell automatically.
- If continuous work is enabled, charging starts automatically when a fully charged battery is disconnected and the next one is connected. If a fixed cell count is set, the next battery must have the same cell count; with the Auto setting, check that the detected cell count matches the actual one.

5. Auxiliary functions

Press and hold **[Exit]** on the main screen to open the auxiliary function menu *Accessibility*.



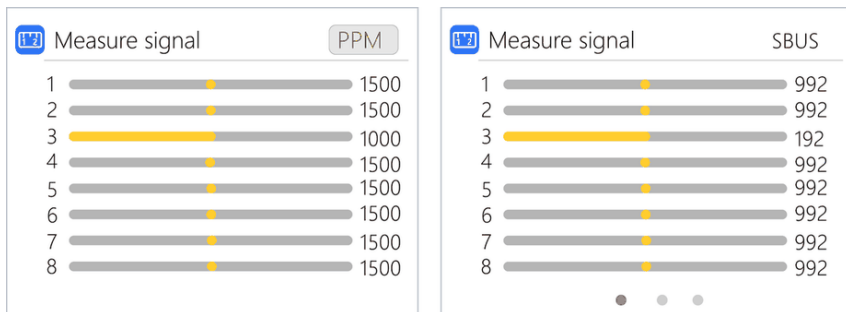
Left: auxiliary function menu, right: PWM signal measurement

5.1 Measure resistance

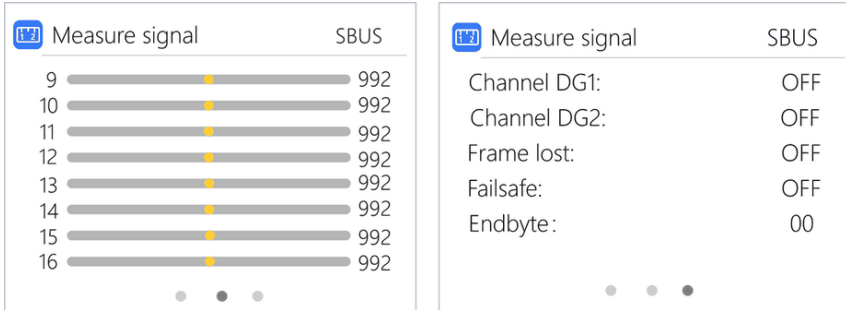
Select **[Measure resistance]** and short press the wheel to measure the internal resistance of the connected battery. The result is displayed on the main screen.

5.2 Measure signal

Move the cursor to **[Measure signal]** and short press the wheel to enter the signal measurement. Rotate the wheel to select the signal type – **PWM**, **PPM** or **SBUS**. With SBUS, rotate the wheel to switch between channels 1–8, channels 9–16 and the overall status.



Left: PPM measurement, right: SBUS measurement – channels 1–8



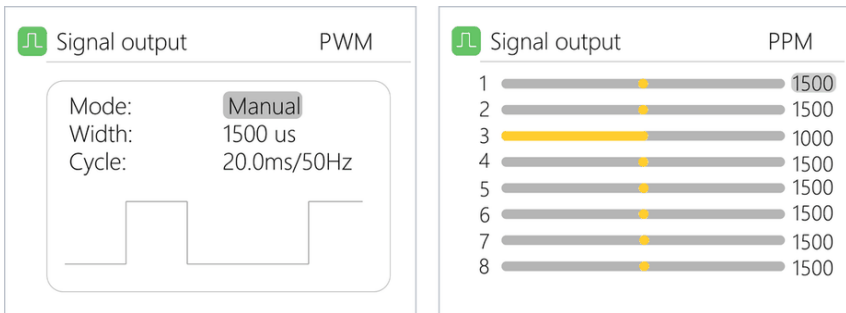
SBUS measurement – left channels 9–16, right overall status

5.3 Signal output

Move the cursor to **[Signal output]** and short press the wheel to enter the signal output. Rotate the wheel to select the output signal type.

► PWM

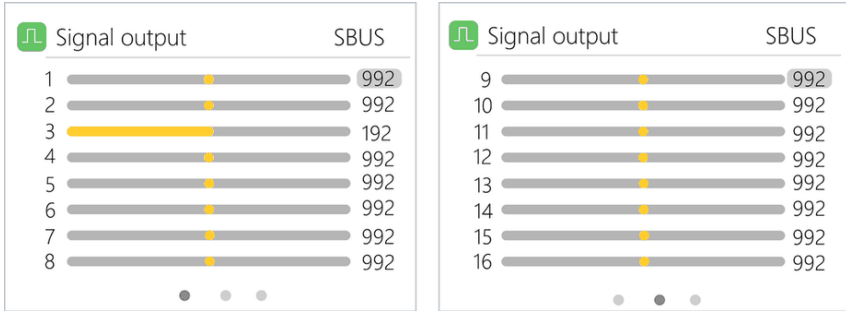
Rotate the wheel to move the cursor to **[Manual]** and short press the wheel to set the output mode: *Manual*, *Auto 1*, *Auto 2* or *Auto 3*. In manual mode, you change the pulse width and cycle with the cursor. In Auto 1, 2 and 3 modes, the pulse width of the output PWM signal changes automatically at three different speeds. The pulse width can be set from 800 to 2200 μ s, the cycle from 2.5 ms (400 Hz) to 50.0 ms (20 Hz).



Left: PWM output, right: PPM output

► PPM and SBUS

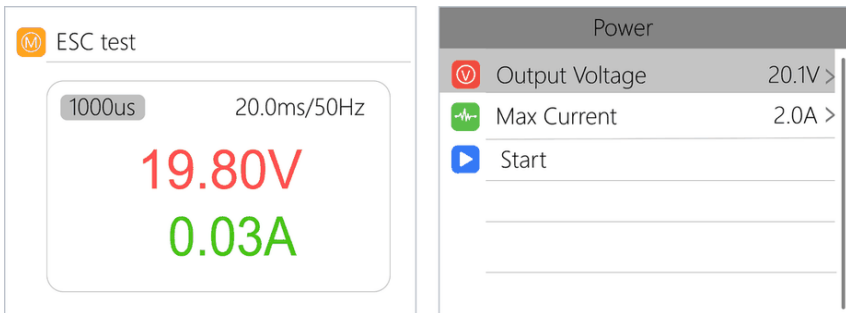
Rotate the wheel to move the cursor to the value of the channel to be modified and short press the wheel to modify the output pulse width of this channel. With SBUS, rotating the wheel also shows the overall output status.



SBUS output – left channels 1-8, right channels 9-16

5.4 ESC test

Move the cursor to **[ESC test]** and short press the wheel to enter the electronic speed controller (ESC) test. Rotate the wheel to move the cursor to the pulse width or cycle and short press the wheel to change the value.



Left: ESC test, right: adjustable power supply (Chapter 5.5)

5.5 Adjustable power supply

Move the cursor to **[Power]** and short press the wheel to enter the adjustable power supply. The output voltage and current can be set at will. Move the cursor to **[Start]** and short press the wheel to start the power output.

✳ **Set the voltage and current according to the connected load before starting the output.**

6. System settings and other functions

Press and hold the **[Scroll Wheel]** on the main screen to enter the system settings. Short press to expand a settings group.

Setup		
	Input settings	▼
	Security settings	▼
	Personalization	▼
	Battery selection	OFF
	Continuous	OFF
	Work completed	Trickle

Setup		
	Input settings	▼
	Power select.	Auto (P1)
	Power type	Adapter
	Max power	90W
	Max current	12.0A
	Voltage range	7.0 - 24.0V

Left: system settings, right: input settings

6.1 Input settings

Power select. – power source presets 1, 2 and 3.

Power type – power source type: battery pack (*Battery*) or adapter (*Adapter*). For battery packs, the Recycle mode is enabled; for adapters, it is disabled.

Max power – maximum wattage allowed via the input port during charging.

Max current – maximum current allowed via the input port during charging.

Voltage range – input voltage range.

6.2 Security settings

Safe inter Temp. – charging stops when the internal temperature of the device exceeds this value.

Safe Exter Temp. – charging stops when the ambient temperature exceeds this value.

Safe time – maximum time limit for continuous charging / discharging.

Safe capacity – maximum accumulated capacity for one charging / discharging session.

Setup		
	Input settings	▼
	Security settings	▼
	Safe inter Temp.	70°C
	Safe Exter Temp.	50°C
	Safe time	200Min
	Safe capacity	20Ah

Setup		
	Personalization	▼
	Backlight	10
	Operation volume	Low
	Announce volume	Medium
	Warning volume	High
	Language	English
	Theme style	Light

Left: security settings, right: personalization

6.3 Personalization

Backlight – backlight brightness of the display, 1–10.

Operation volume – volume of the scroll wheel: off, low, medium, high.

Language – system display language (English, Chinese etc.).

Theme style – light or dark theme.

6.4 Further settings

Setup		
	Battery selection	OFF
	Work completed	Trickle
	Balance start Vol.	Always
	Continuous work	OFF
	Default	
	ID:FF3005D3 - V1.00	

Further settings

Battery selection – show / hide the list of frequently used batteries.

Work completed – stop after charging is complete, or keep the battery on trickle charge (*Trickle*).

Balance start Vol. – balance the cells prior to full-current charging.

Continuous work – enable / disable continuous charging / discharging after battery replacement.

Default – reset to factory settings.

ID – unique identification number of the device.

6.5 Firmware upgrade

- ① Connect the M8P to the computer with the USB cable from the box. The computer recognizes a drive named **Toolkit**.
- ② Download the firmware package from the manufacturer's website download.toolkitrc.com/m8p and unpack it.
- ③ Copy the upgrade file (**app.upga**) to the Toolkit drive, overwriting the original file. The firmware is upgraded.

6.6 Other functions

► Automatically continue charging / discharging

When a battery is fully charged, connect the next battery – the device automatically continues charging or discharging. You can enable or disable this function in the system settings (*Continuous work*).

► Fan

When the internal temperature of the device exceeds 45 °C, the fan runs at half speed to reduce noise. When the internal temperature exceeds 53 °C, the fan runs at full speed to enhance heat dissipation.

► Manual voltage calibration

With the M8P powered off, press and hold the **[Scroll Wheel]** and, without releasing it, connect the power supply – the system enters the manual voltage calibration mode. Use a voltmeter to measure the actual voltage of each cell, move the cursor to the corresponding value and modify it to match the voltmeter value. After calibration, move the cursor to save and short press the wheel once – a single beep confirms that the values have been saved. Then exit the calibration or switch the device off.

► Full charge mode

When a lithium battery is fully charged, the message *Fast charge complete* is displayed. If the battery is not removed, the charger trickle charges it until it is disconnected.

6.7 Maintenance and storage

- Disconnect the power supply and the battery before cleaning. Clean the device with a dry cloth only.
- Protect the device from moisture, dust, drops and impacts; keep the ventilation openings and the fan clear.
- Check the connectors and leads regularly. Stop using the device if it is damaged.
- Store in a dry place, out of the reach of children, with the power supply disconnected.

7. Specifications

Parameter	Value
Input voltage	7.0-35.0 V DC, max. 25 A
Supported batteries	LiPo, LiHV, LiFe, Li-ion, LTO 1-8S NiMH 1-20S, Pb 1-10S
Charging	0.1-20 A, max. 600 W
Discharging	0.1-20 A, max. 600 W (Recycle / External) 0.1-3 A, max. 20 W (internal)
Balancing	1000 mA at 4.2 V
Balancing accuracy	< 0.005 V
USB-A output	5.0 V / 2.1 A; firmware upgrade
Cell voltage measurement	1.0-5.0 V, 1-8S
Internal resistance measurement	0.1 mΩ - 99 Ω, 1-8S
PWM measurement	880-2200 μs, 20-400 Hz
PPM measurement	880-2200 μs, 8 channels, 20-50 Hz
SBUS measurement	880-2200 μs, 16 channels, 20-100 Hz
PWM output	500-2500 μs, 20-1000 Hz
PPM output	880-2200 μs, 8 channels, 50 Hz
SBUS output	880-2200 μs, 16 channels, 74 Hz
Adjustable power supply	1-35 V, 1-20 A, CC + CV mode
Display	IPS LCD 2.4", 320 × 240 px
Device dimensions	99 × 72 × 35 mm
Device weight	180 g
Package dimensions	125 × 81 × 41 mm
Package weight	250 g

8. Information for the EU and Czech Market

❖ The information in Chapters 8 and 9 describes the situation under the law of the Czech Republic, where the product is sold. The law of the country in which the product is operated always prevails – if you use it in another country, follow the regulations of that country.

8.1 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

8.2 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 identification:** the type designation (M8P) is given on the device; the unique identification number of the device is shown in the system settings (item *ID*, Chapter 6.4).

8.3 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>.

9. Warranty and rights arising from defective performance

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 8.1.
- 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.