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FPVDrone LSDX1

FPVDrone CellMeter 8 Digital Battery Capacity Checker and Servo Tester Instruction Manual

Model: LSDX1

Introduction

The FPVDrone CellMeter 8 is a versatile digital device designed for checking the capacity and voltage of various battery types, including LiPo, LiFe, Li-ion, NiCd, and NiMH. It also functions as a servo tester for standard and narrow servos. This manual provides detailed instructions for its setup, operation, and maintenance.

Key Features

- Digital LCD with Backlight for improved visibility.
- Multifunctionality: Serves as a Battery Voltage Capacity Checker and a Servo Tester.
- Supports multiple battery types: LiPo, LiFe, Li-ion, NiCd, NiMH.
- High precision voltage testing: 0.001V.
- Display modes include individual cell voltages, total voltage, lowest cell voltage, highest cell voltage, and voltage gap.
- Easy to use interface.

Product Overview



Figure 1: Front view of the FPVDrone CellMeter 8 displaying battery voltage and capacity.

The CellMeter 8 features a clear LCD screen with a backlight for easy reading in various lighting conditions. It has three control buttons: **TYPE** for setup menu, **CELL** for servo test, and **MODE** for discharge functions. On the right side, there is a multi-pin connector for battery balance leads. On the left side, there are ports for servo testing and PPM adjustment.



Figure 2: The CellMeter 8's LCD screen with its blue backlight activated, enhancing readability.

Setup and Battery Connection

1. **Identify Battery Type:** Ensure your battery is one of the supported types: LiPo, LiFe, Li-ion, NiCd, or NiMH.
2. **Connect Balance Lead:** For LiPo, LiFe, and Li-ion batteries, connect the battery's balance lead to the multi-pin connector on the right side of the CellMeter 8. Ensure the negative side of the balance lead (usually black wire) aligns with the 'B-' pin (pin 1) on the tester. Connect all available pins starting from pin 1. Incorrect connection may prevent the device from powering on or providing accurate readings.
3. **NiCd/NiMH Connection:** For NiCd and NiMH batteries, connect the main discharge lead to the "Servo 5V Power IN (NiCd/NiMH)" port on the top right.
4. **Power On:** The device will automatically power on once a compatible battery is correctly connected.



Figure 3: The CellMeter 8 connected to a LiPo battery, ready for voltage and capacity checking.

Operating Instructions

Battery Voltage and Capacity Checking

Once the battery is connected, the CellMeter 8 will display the total voltage and remaining capacity percentage. Use the **MODE** button to cycle through different display modes:

- **Total Voltage:** Displays the overall voltage of the battery pack.
- **Individual Cell Voltages:** Shows the voltage for each cell in the battery pack (for LiPo, LiFe, Li-ion).
- **Lowest Cell Voltage:** Indicates the cell with the lowest voltage.
- **Highest Cell Voltage:** Indicates the cell with the highest voltage.
- **Voltage Gap:** Displays the difference between the highest and lowest cell voltages, which is crucial for battery health assessment.

The **TYPE** button can be used to enter the setup menu, allowing selection of battery type if not automatically detected or

for specific settings.

Servo Tester Function

The CellMeter 8 can also test standard and narrow servos. To use this function:

1. **Power the Servo Tester:** Connect a 3-5V battery to the "Servo 5V Power IN (NiCd/NiMH)" port. This powers the servo testing circuit.
2. **Connect Servo:** Plug your servo into the "Servo Test" port on the top left of the device.
3. **Activate Test:** Press the **CELL** button to initiate the servo test. The device will cycle the servo through its range of motion.
4. **PPM Adjustment:** Use the "PPM Adjust" dial (if present) to fine-tune the servo signal.

Discharge Function (for LiPo batteries)

The CellMeter 8 includes a feature to discharge LiPo batteries to a recommended storage voltage of approximately 3.7V per cell. This is important for maintaining battery health during long-term storage.

1. **Connect LiPo Battery:** Ensure the LiPo battery is correctly connected via its balance lead.
2. **Select Discharge Mode:** Press the **MODE** button repeatedly until the discharge option is displayed (if available on your model).
3. **Initiate Discharge:** Follow on-screen prompts to start the discharge process. The device will automatically stop when the target storage voltage is reached.

Note: Always monitor batteries during discharge. Ensure proper ventilation and fire safety precautions are observed.

Maintenance

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the CellMeter 8 to extreme temperatures, moisture, or direct sunlight.
- Store the device in a dry, cool place when not in use.
- Do not attempt to disassemble or repair the device yourself, as this will void any potential warranty and may cause damage.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Incorrect battery connection or battery is completely discharged.	Ensure the balance lead is connected correctly, with the negative wire aligned to pin 1. Check if the battery has sufficient charge.
Inaccurate voltage readings.	Poor connection or damaged balance lead.	Verify the balance lead is securely connected. Inspect the lead for damage.
Servo tester not working.	No external power supply for servo or incorrect servo connection.	Connect a 3-5V battery to the "Servo 5V Power IN" port. Ensure the servo is correctly plugged into the "Servo Test" port.

Specifications

- **Model Number:** LSDX1
- **Supported Battery Types:** LiPo, LiFe, Li-ion, NiCd, NiMH
- **Battery Voltage Test Precision:** 0.001V
- **Display:** Digital LCD with Backlight
- **Functions:** Battery Capacity Checker, Voltage Tester, Servo Tester, Discharge Function (for LiPo)
- **Product Dimensions:** 4.5 x 3.4 x 1 inches
- **Item Weight:** 0.2 Pounds (approximately 3.2 ounces)
- **Manufacturer:** FPVDrone

Additional Information

For further assistance or inquiries, please refer to the manufacturer's official support channels. Warranty information may be available through your point of purchase.

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