AerobTec Device Terminal

Device terminal and Multimeter for RC modelers
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1. Specifications

- Dimensions: 71 x 45 x 10mm
- Weight: 38g
- Upgradeable firmware
- Operating temperature: 0ºC – 50ºC
- Power supply
  - 4V – 8.4V
  - from USB adapter or from aircraft fuselage (via Altis Micro), measured Li-poly battery or from RC In connector
- Input voltage range
  - Cell 1: 8.4V
  - Cell 2 – Cell 6: 0V – 30V
- Servo tester – Output 50Hz / 1.5ms or 550Hz / 0.75ms

2. Introduction

AerobTec Device Terminal is a device which serves for displaying the main measured data by supported devices such as Altis Micro altimeter logger and switch. It serves also to set the main settings of it. It is a multifunctional device containing also a battery tester, voltmeter, PWM tester and servo tester.

3. External connectors

There are four connectors on the Device Terminal:
- Voltage IN – connector for external voltage or a (up to 6 cell) battery to be measured
- IN – RC signal to be measured

Fig. 1: Connectors
4. Hardware connection with Altis Micro

AerobTec External Display connects to a supported device Altis Micro by the connector marked **COM**. Altis Micro must be provided by power supply from the aircraft.

![Fig. 2: Example of connection with Altis Micro](image)

5. User interface

**Buttons**

There are four buttons – Up, Down, Enter and Esc serving for navigation in the menu. **Up** and **Down** move in one menu and change value. **Enter** activates a submenu and confirms a new value. **Esc** leaves a submenu and discards a changed value.

![Fig. 3: Buttons](image)
Button combination **Down + Esc** pushed simultaneously changes modes of the device

### Device Terminal mode

Device Terminal mode is available automatically if there is no communication with Altis Micro or other external device. Other option is to select this mode by pressing Down and Esc buttons simultaneously.

These functions are available in this mode:

- **Lipoly Meter**
  - Measurement of Li-poly cell voltages separately

- **Voltage Meter**
  - Measurement of voltages on Cell 1 to Cell 6 inputs

- **PWM Tester**
  - Measurement of parameters of RC In signal

- **Servo Tester**
  - Generator of a PWM signal available on OUT connector

There are following modes available:

- Manual – user selects impulse length manually
- Center – default impuls length representing the central position is used
- Auto – the impulse length increases and decreases automatically in the chosen range

**Out type** – 50Hz/1500µs or 550Hz/750µs configuration

**Increment** – it is the step of manual changes in the output signal in manual mode or speed of changes in auto mode

**Min / Max** – the range of allowed values of the output signal impulse length

**RPM Meter**
- Measures revolution per minute of the signal on IN connector – requires appropriate pulses from an external sensor
- **DIV** – divider of the input value (to take into account the amount of the blades)

**Settings**
- Displays the settings of the display and allows to change its parameters
- The parameters are Contrast, Back-light time and if the display should prefer to use F5J mode on Start-up

There are also Firmware version and Serial number displayed in this screen

### External Device mode

If there is an external device (such as Altis Micro) connected, its menu is displayed and Device terminal provides access to its menu.

For more detail on the menu refer to the manual of the external device.

### F5J mode

Mode displaying only F5J height and firmware version from the external device.
6. Warning

Keep the correct polarity of the connectors and the voltage range when connecting the other devices.
The device may be installed in the aircraft fuselage, however do not mount it on aircraft components which might be hot in operation (ESC, batteries)!
Do not short circuit the leads of the device
Do not touch the AerobTec Device terminal on the metal surface, as this might lead to shorting of the power supply and RC system may failed.
Do not put the AerobTec External Display in water, fuel and other liquids!

7. Correct disposal of this product

This product should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household Users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract.
This product should not be mixed with other commercial wastes for disposal.

8. Product Registration

If you did not purchase the product directly from AerobTec please mail following information to sales@aerobtec.com. By registering your products you will be informed about updates and notifications.

Name :
Address* :
Country :
Phone* :
Email :
Product :
Serial number of product :
Date Purchased :
Where did you purchased your product? :

* this information is not obligatory

An alternative option is to register at http://www.aerobtec.com/support/products-registration

9. Revision History

Rev. 1.0. (June 2014)
Initial release