HOBBYWING®

USER MANUAL

Telemetry Adapter

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20250328   HW-SMD404DUL

01 Product Introduction

This adapter is suitable for Platinum V4/4.1/5, XERUN, EZRUN series with data backhaul function. By connecting the Electronic Speed Controller (ESC) to a telemetry-capable receiver (such as those supporting Futaba, FrSky, or JETI protocols) via this adapter, real-time ESC status data can be transmitted back to the corresponding transmitter (e.g., Futaba, FrSky, JETI) for display.

02 Instruction Manual

## 1 The wiring diagram

Electronic Speed Controller

Telemetry Adapter
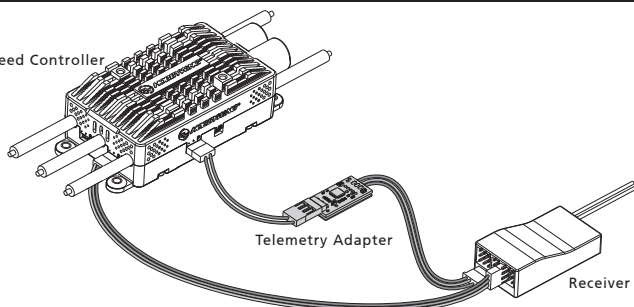
Receiver

1) Connect the ESC port (usually identified as "-+ P") to the "-P" side of the adapter;
2) To connect the adapter's "- + T" terminals to the telemetry channel of a receiver supporting Futaba, FrSky, or JETI telemetry;
3) To connect the Electronic Speed Controller (ESC) throttle signal wire to the throttle channel of the receiver.
Note: The input Voltage of the adapter is 5-12V; The "-P" port does not provide power to the adapter.

2 The parameter setting method

2.1.Wiring diagram:

LCD Program BOX

Battery

Telemetry Adapter
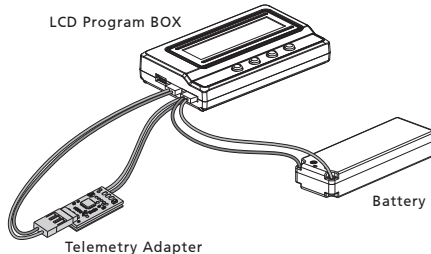
2.2. Parameter setting method:
   1) According to the image above, connect the adapter and the LCD program box; (The "- P" side of the adapter should be connected to the LCD programming box, the"- + T" side of the adapter should be connected to both the LCD programming box and a power supply (2s lipo recommended).
   2) Press the "OK" key upon connecting the program box. After the connection is successful, the current firmware version number will be displayed;
   3) After adjusting the parameters on interface, press the "ITEM" key to browse through parameter items, press the "VALUE" key to change the value of the parameter;
   4) Once after the setting value has been changed, press the "OK" key to save the setting;
   5) Repeat the third and fourth steps to modify the settings of other parameters;
   6) After the parameter settings are completed, disconnect the adapter from the battery, power up again to see if the parameters are current.

3 Programmable parameter and instructions

	Item	Value		
1	Number of motor pole pairs	1-50（Default: *1)		
2	Pinion	1-100（Default: *1)		
3	Main Gear	1-255 (Default: *1)		
4	Start Slot	8	16	*24
5	Protocol type	*FUTABA	JETI	FRSKY

" * " is the factory default setting.
1) Number of motor pole pairs: This item is used to set the number of motor pole pairs;
2) Pinion: This item is used to set the number of teeth mounted on the motor output shaft;
3) Main Gear: This item is used to set the number of teeth that coaxial with the main rotor; (Main Gear/ Pinion refers to the Gear ratio of the aircraft. For aircraft with multiplegears, the same final Gear ratio can be set according to the aircraft manual)
4) Start Slot: This project is used to manually set the starting data positioning on the Futaba remote control (under the sensor menu of the Futaba remote control) for the adapter Telemetry data. 8, 16, 24 locations are optional, with a default of 24.
5) Protocol type: This item is used to set the type of return protocol adaptation for different brands of remote controls.

03 LED function description

LED instructions:

LED	Info
Red LED light flashes	The ESC is communicating with the adapter.
Green LED light flashes	The adapter is communicating with the receiver.
Red LED light is not on	The ESC is not connected to the adapter properly, or the ESC is not communicating with the adapter.
Green LED light is not on	The adapter is not connected to the receiver properly or the adapter is not communicating with the receiver.
Red and Green LED lights not flashing	There is no communication between the ESC and the receiver, or the adapter is not powered on.