



RC Electronics FEN-REM Fenix Remote Stick Control User Manual

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RC Electronics FEN-REM Fenix Remote Stick Control



Introduction

The Remote is one of the first glider remotes that features wireless control. This kind of feature is an advantage for installation in gliders since less space is required for physical wires. We create special shape which enables firm but comfortable grip during flight. Press keys location with device shape enables a smooth transition of fingers being in grip position to perform press action on the wanted button. Below is the short list of the additional features:

- Wireless communications.
- Supports 12V and 24V system.
- Four direction joystick with central push button.
- Leather material for better grip and durability.
- Design to fit on multiple diameters of glider sticks.

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Interface view



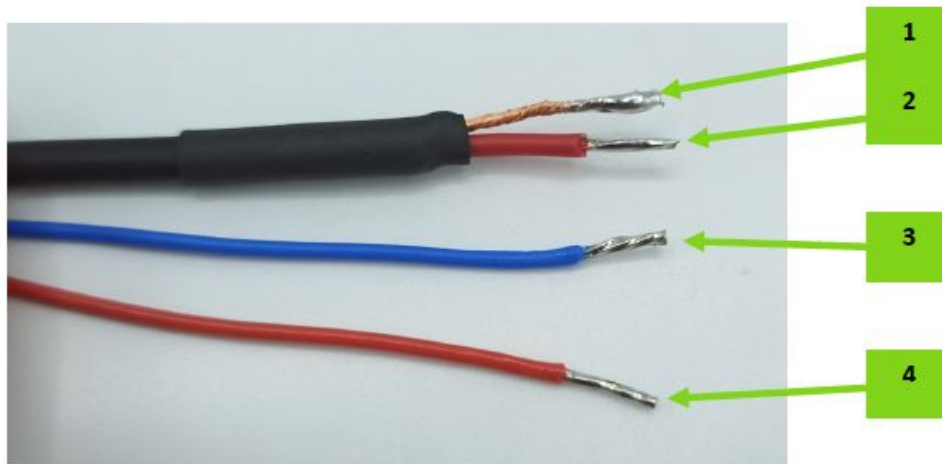
Number	Lable	Description
1.	F2	MC dialog
2.	F1	Volume dialog
3.	–	Four direction joystick with central push button (left, right, up, down, center push)
4.	PTT	Push to talk
5.	X	Return back / exit
6.	–	Speed command button

Installation

Installation of the remote is simple and less time consuming due to the smaller number of wires. It's compatible with the Fenix device as with FenixS devices.

Physical connection wires

Standard version of the remote requires only four wires to be connected. Colored wires red and blue are use for main power delivery to the unit. Additional shielded black cable is use for PTT function.



Number	Description	
1.	PTT ground wire	
2.	PTT signal wire	
3.	Negative power wire (-)	12V / 24V power supply
4.	Positive power wire (+)	

Pairing to the main unit

Before performing pairing, please note that during pairing there should be only one powered external device (Fenix or FenixS) in the range of 20m from Remote unit to assure it is paired to the desired unit

Pairing with turn off main unit (e.g. Fenix or FenixS)

Pairing the remote unit is only performed once. The unit will remember the last paired external unit, even after power restart. To pair the remote unit with the external device, please see guides below:

- Simultaneously press and hold central push button and SC button.
- While holding buttons, turn on master switch so remote unit gets power. Keep holding the two buttons for at least 3 more seconds after power is applied, then you can release them.
- Turn on external device (e.g. Fenix or FenixS).
- After 5-10seconds, the external device should be fully controlled by the remote unit.

Adapter for glider handle

When purchasing the unit, please specify correct adapter diameter for handling stick.

Adapter internal diameter	Glider
19.3mm	DG, LAK, Shempp-Hirth
20.3mm	LS, Stemme, Apis, EB29
24.0mm	Schleicher, Pipistrel Taurus, Alisport Silent, EB28
25.4mm	JS

Power supply

The unit supports 12 V(DC) and 24 V(DC) power supply. Additional properties:

- Max current consumption at 12 V(DC) is 35 mA.
- Max current consumption at 24 V(DC) is 18 mA.
- Integrated reverse polarity protection.
- Integrated under voltage shutdown.
- Integrated maximum thermal limit protection.

NOTE

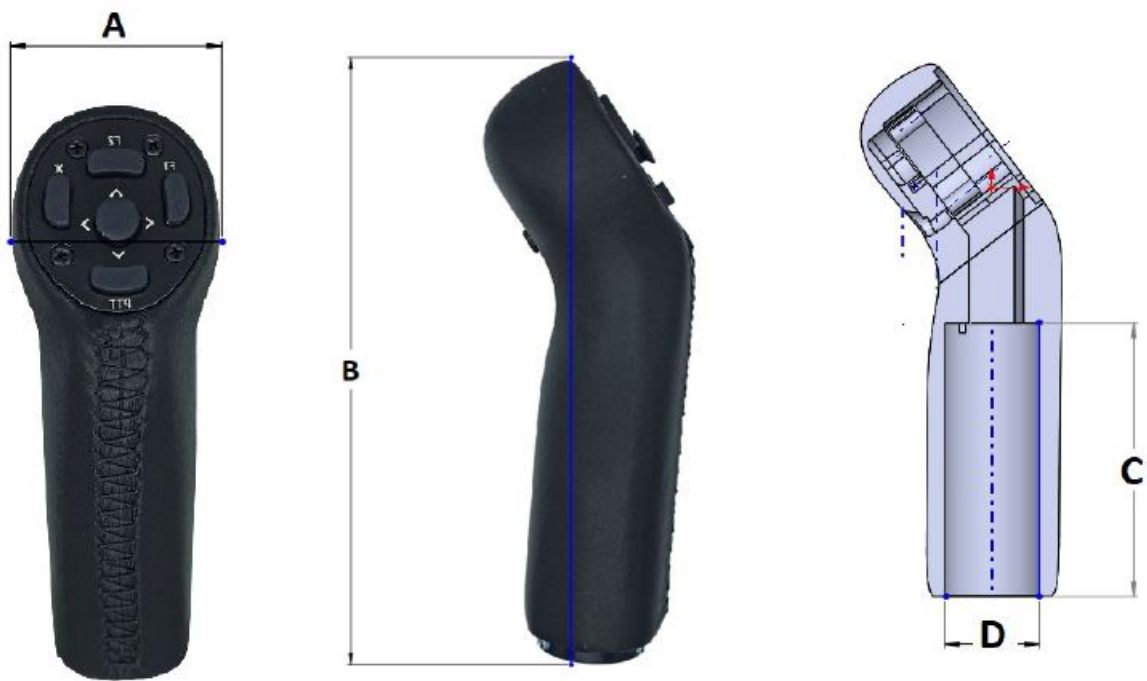
The unit can accept input voltage up to 32V(DC) however, crossing this limit can damage the unit

PTT shielded cable

PTT function is directly wired to internal button of the remote. Operation works independently from the other remote functionality. Black shielded cable should be connected directly to external terminals of VHF radio. For correct connection of the PTT function, see VHF radio installation manual.

Device mechanical parameters

Units in mm.



Marking	Length
A	55 mm
B	150 mm
C	75 mm
D	Depends on ordered version

REMOTE - user's manual



version 1.0

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FEN-REM, Fenix Remote Stick Control, Remote Stick Control, Stick Control

References

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