



WATERTIGHT RF REMOTE CONTROL WITH 4 BUTTONS

1 – Presentation

It is possible to connect multiple remote controls to a Pypilot controller equipped with a 433MHz receiver and an Arduino decoder.

Each button on each remote control can be assigned to one of Pypilot's many functions (see the controller's manual). Several remote controls can also have identical functions.

This is a 433MHz rolling code remote control, sometimes also called a learning code. It uses the EV1527 encoding chip, like the 8-button remote control.

This 6V model is slightly less powerful than the 12V version, but it has the advantage of being waterproof. I have been using it on my boat for several years with satisfaction. The batteries provide good battery life. The waterproofing has always been perfect thanks to the silicone protection covering the buttons, batteries, and circuit board.

Size 55 x 32 x 12mm

Two batteries CR2016



2 – Operation

When a button is pressed, the red LED will light up continuously when the batteries are good. If the LED flashes very rapidly, the batteries need to be replaced. Before taking a remote control to the deck, first check that the LED is lit continuously.

I always carry two individual remote controls on board, worn around the neck with a cord and featuring -1, +1, -10, and +10 functions.

STL files are available for 3D printing protective covers and brackets, including for the different types of tiller cylinders. The tiller cylinder remote controls engage or disengage the autopilot, and their +1 and -1 buttons extend or retract the cylinder when the autopilot is in standby mode.

There are also 3D-printable parts available to create an 8-button waterproof remote control from two 4-button remote controls.

It's also a good idea to have a remote control for accessing the LCD menu, mounted next to the Pypilot computer. This allows you to configure Pypilot or reset the Wi-Fi settings without having to access the SD card. On my boat, this remote is attached near the computer with a lanyard to prevent accidentally taking it onto the deck. The buttons on this remote should be assigned to the following functions: -1, +1, MENU, and MODE.

2 – Battery replacement

To open the waterproof remote without breaking its clips, follow these instructions:

- Insert a knife blade on the side opposite the cord attachment point and pry it open so the clips can be partially released.
- You must then slide the button section against the other section by less than a millimeter toward the cord attachment. This is crucial to avoid breaking the clips essential for waterproofing.
- You can then pry the two parts together to gradually unclip them towards the cord attachment until the remote opens completely.

To close the remote control, start by sliding the button section against the other section towards the cord attachment. Once the two sections are aligned, you can press it closed.