

FATHOM
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3rd GEN PITKIN CONTROLLER
USER MANUAL



3rd Gen Pitkin Controller

The 3rd gen Pitkin Controller can be used to adjust the power on a heated vest, habitat scrubber, or other battery powered device. The power controller is connected inline between the battery pack and the powered device using e/o cords and uses tap or switch control to select one of six power settings (0, 20, 40, 60, 80, or 100%). An LED indicates the current power setting. The power controller is rated for 5-24 v input but doesn't regulate voltage at a constant output so divers must verify the heated vest or device being powered can handle the battery voltage. The power controller is rated for 10 amps at any voltage.

~~**CAUTION:** When connecting the power controller, be sure to connect the e/o cord with the red band to the power supply. Failure to do so may result in damage to the controller.~~

Output Level

The LED flashes indicate power output level.

Flashes	Power Level
5	100%
4	80%
3	60%
2	40%
1	20%
0	Off

Tap Control

The LED flashes red every time a tap is detected and flashes an equivalent number of flashes after 5, 6, or 7 taps are detected (less than 1/3 second apart).

Taps	Function
3	increases power
2	decreases power
5	sets tap sensitivity (see below)
6	toggles power interruption control (see below)
7	toggles between standard suit heater mode (blue LED) and motor control mode (green LED, see below)

Set Tap Sensitivity

- 5 taps ► LED indicator changes to red.
- Adjust tap sensitivity from level 0 to 5 using 2 or 3 taps. Most people can leave at the default 100%.
- 5 taps to save and exit.
- Tap sensitivity is always at 100% for 5 seconds after the controller is powered up to allow this menu to be entered.
- Output power is switched off while tap sensitivity is being adjusted.

Motor Control Mode

(for habitat scrubber fan motors)

- Uses higher frequency (20kHz) pulse width modulation (PWM) and different power settings optimised for that purpose.
- Much less efficient for heat control than suit heater mode which uses 20Hz PWM.
- Switch between motor control (green LED) and suit heater mode (blue LED) with 7 taps.

Power Interruption Control

- Briefly interrupt (off/on) the power to go down one power level.
- Switch off for 3-5 seconds to revert to full power.
- This mode can be enabled/disabled by 6 taps.

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