

FATHOM

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2nd GEN PITKIN CONTROLLER OPERATING INSTRUCTIONS



2nd Gen Pitkin Controller

The 2nd 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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