

Variable Heat Controller VHC-2 for Hot Grips® products.

Features click-detent OFF position, will vary the heat from 0- at OFF position, and then from 25% to 99% thru the rotation range. We designed it to start at 25% because below the 25% voltage-on level there would be insignificant heat, thus giving up fine-tuning range needlessly.

For heated grips control ONLY. Cannot be used for heated clothing, because there is a built-in *circuit breaker* in the electronics to trip open when over 4 amps. The unit will not be damaged from overload, but will not function in such a case. There will be no functionality of it when connected to heated clothing, which will exceed the 4 amps. The control will work on any set of heated grips, regardless of manufacturer, but we cannot advise you on which vehicle wire to use as your power input seek professional competent mechanic's help. You should select one that has no power when the key is off.

Solid-state electronic 'Pulse-Width-Modulation' turns the voltage on and off many times per second, and varies the percentage of voltage ON-time to effectively control the heat output of the grips. The OFF position will draw no power. This PWM technology will save wattage/amps on your system at reduced settings, unlike use of a power resistor or variable resistor to control heat.

Connect red wire to a switched 12vdc (will not work on AC current) power source, and the black wire goes to the heated grips. The output cannot be tested with a volt-meter unless there is a suitable load on the control, such as the heated grips, which are typically 4.8 ohms (+ - 1 ohm). This can also be tested with a correctly configured 12vdc Light Emitting Diode load that draws less than 4 amps.

The quality control testing of these units prior to packaging is at 100%, not just sample tested. PWM units can be responsible for radio interference, and may introduce a "buzz" through your AM, FM, SW, CB, Intercom speakers. Refer to use of relay response to # 29 at: <http://www.hotgrips.com/faq.php>

Designed to be panel-mounted, we do not offer a handlebar mounting bracket. Remove the knob by pulling it off from under the knob, remove the nut, drill a hole matching the shaft diameter, mount on panel, assembling nut and knob. The knob is a 2-piece assembly and could separate if not pulled up from under the knob. In such a case, any adhesive or cyanoacrylate (instant glue) can be used to join the hub to the knob.

IMPORTANT: If your Hot Grips® kit are wired in "series" you can still use this VHC-2 but must wire the 2 grips in "series" like your Hot Grips® kit instructions describes. Examples: Models: Ergo 1, Ergo 2, 101, 102, 103, 104, 105, 201, 301, 302, 401, 406, 88T, 8ED, 8DN.

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