



Ss Brewtech™ eController 1 V

Every component of Ss Brewtech's new eControllers was designed to enhance the brewing experience. Beginning with the custom extruded 6061 aircraft-grade aluminum housing, which is CNC machined, and then coated in a durable black anodized finish. This approach allowed to keep the system compact, portable and functional. The housing includes an integrated carry handle for easy setup and take down, a tee-slot for alternative mounting options, along with a heatsink to keep the internal electrical components cool.

The eController is driven by a fully proportional PID controller, which doesn't rely on high speed switching to modulate heat. Instead, voltage is modulated through an internal SSR, this means element wattage is proportional. A switch located just above the PID, allows the user to operate the controller in manual or automatic modes.

In manual mode, the proportional output can be fine-tuned on a scale of 0-100% of total element output which is ideal for dialing in a perfect rolling boil. Alternatively, in automatic mode, the PID algorithm manages the proportional output relative to process temperature, to hold a steady HLT (Hot Liquor Tank) or mash temperature for instance. The eController quickly finds equilibrium with environmental heat loss characteristics, and can maintain a high degree of accuracy during each step of the brewing process.

The heater button allows the user to cycle the element on or off without shutting down the power to the entire unit, or adjusting the PID output setting, which is especially helpful during the occasional boil-over. This feature also allows the controller to be used to monitor a process temperature, such as during runoff or latter stages of the sparge process without the risk of dry firing the element. Lastly, the controller features two accessory outputs, which would commonly be used for pumps, but could also be used for a mill, lighting or even a phone charger.

Connectivity was an important consideration for the Ss Brewtech eControllers, they wanted the flexibility and familiarity of a plug that could be adapted to an existing customer supplied kettle or element, and the reliability of a UL approved connector type. For 220~230 VAC main power and element connectors, they settled on the common IEC C19/C20 standard, which is a 3-wire twist-lock plug type, capable of delivering 13 amps of current. For the accessory connections, they settled on using a IEC C13 outlet, capable of delivering 5 amps of current. Finally, for the PT100 temperature probes, they opted for the 3.5 mm mini jack connector standard, commonly used for headphones, which is both durable and easy to use.

- Extruded Anodized 6061 Aluminum Housing
- Omron Proportional PID Controller
- Automatic and Manual Modes
- On/Off Element control
- PT100 temperature probe



Specification

Packing dimensions and weight:

Weight	5.42 kg
Length	42 cm
Height	24.5 cm
Width	36.5 cm
EAN code	0173286

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- 220~230 VAC 13 A IEC C20 mains power input
- 220~230 VAC 2650W IEC C19 modulated element output
- 1x 220~230 VAC 5 A IEC C13 switched accessory output accessory receptacles

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