



StanCo Scientific, Inc.

As technology progresses, modern solutions to dated equipment not only becomes more user-friendly, but frequently more economical. Continuing our efforts to simplify and modernize the testing environments of gasoline, a digital temperature controller was developed. It is our attempt to provide a drop-in, modern alternative for Waukesha temperature controllers.



Digital Temperature Controller features:

- Easy to read temperature readouts for displaying both the Inlet Air Temperature and Mixture Air Temperature.
- Simple control of set temperature value for both IAT and MIXT.
- Temperature resolution of 0.1°F (or °C)
- Calibratable offset for temperature controllers to mitigate temperature drift over time.
- 2 Class A Platinum and Glass Pt100 temperature probes Mixture and Intake Air
- Drop-in compatibility—comes fitted with 8-pin Jones plug style connector for use with existing engines.
- Solid-state relay integration for reliable and safe heater operation
- 3100 rpm fan-driven cooling system for temperature dissipation

NEW FOR 2019

SSD7200 Digital Temperature Controller

ASTM D2699 | ASTM D2700

Installation Instructions:

- 1) Plug in the SSD7200 Temperature Controller into the existing 8 pin Jones plug connection of the engine. Do not turn on the unit.
- 2) Plug in the Pt100 probes into the SSD7200 temperature controller.
- 3) If your engine utilizes Pt100 probes, install the new Pt100 probes in their respective places. (NOTE: If your engine was not previously set up for Pt100 probes, the correct fittings will need to be obtained and installed on the mixture probe manifold and the intake air pipe, respectively. These fittings need to be secured with temperature resistant pipe compound. Engines vary and the size of the fittings will vary. The compression side of the fittings will need to be 1/8 OD and the threaded pipe side will vary between 1/8", 1/4", or 3/8" NPT.
- 4) To correctly install the depth of the probes: Insert the probe fully and then retract the probe by approximately 1/2". Once this placement is achieved, tighten the compression until snug, DO NOT OVERTIGHTEN
- 5) Turn on the unit for either the intake air or mixture temperatures and set the desired temperature.

Operation Instructions:

- 1) Turn on the desired heater control (intake air or mixture air)
- 2) Set the temperature
- 3) Allow the temperature to settle and stabilize after a period of time (Note: Due to the initial heating requirements of the mixture temperature, especially from ambient, be prepared to allow extra time for the system to stabilize)

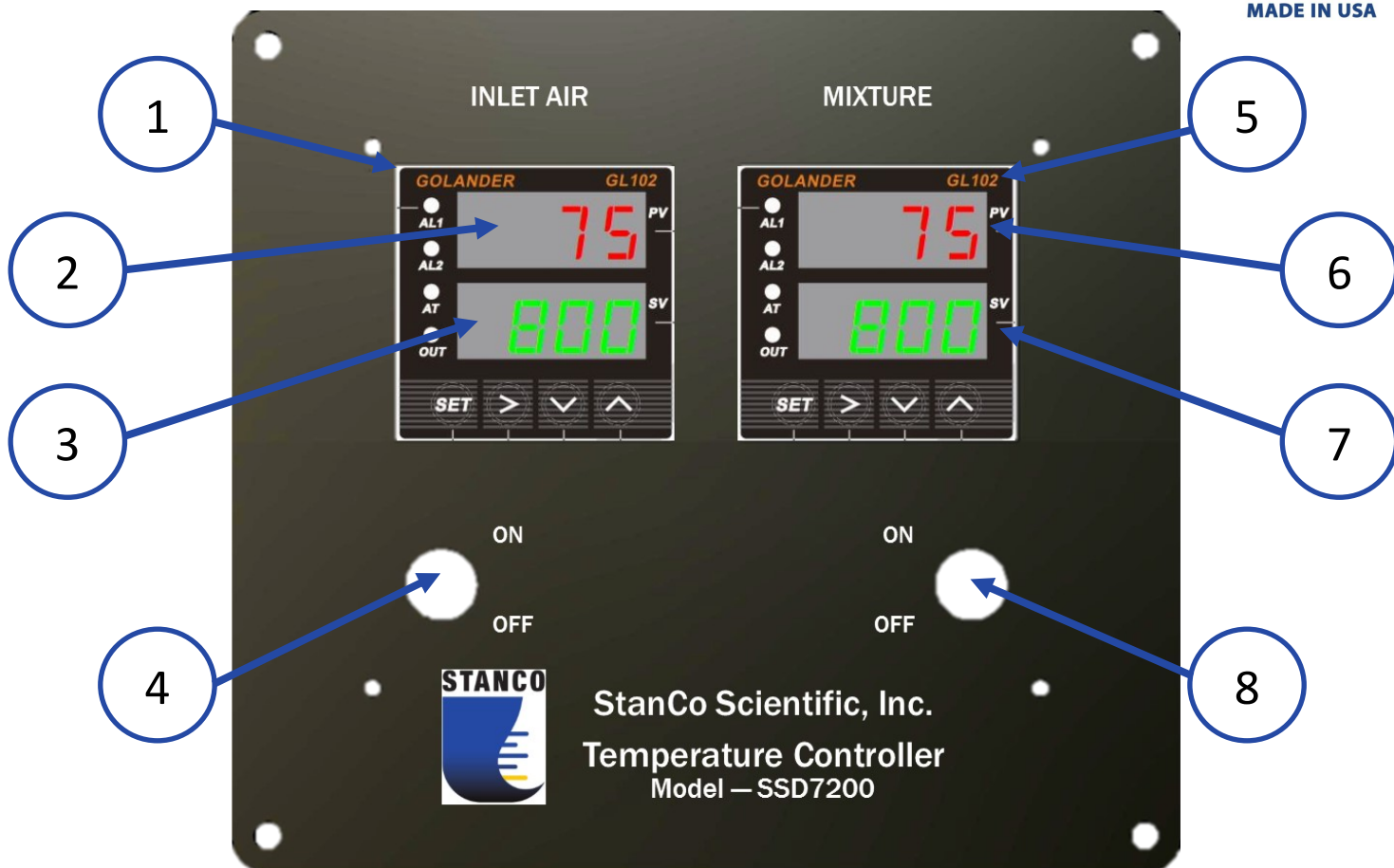
Maintenance Instructions:

- 1) Periodically check the fan guards on the top and bottom of the unit and brush off excess dirt and dust that accumulates
- 2) If power failure, check fuse and replace with a 2A slow blo standard American style fuse.

SSD7200

Installation Instructions

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- 1 Inlet Air Temperature Controller
- 2 Current Inlet Air Temperature
- 3 Set Temperature (IAT)
- 4 On/Off switch for IAT controller

- 5 Mixture Air Temperature Controller
- 6 Current Mixture Air Temperature
- 7 Set Temperature (MIXT)
- 8 On/Off switch for MIXT controller



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