

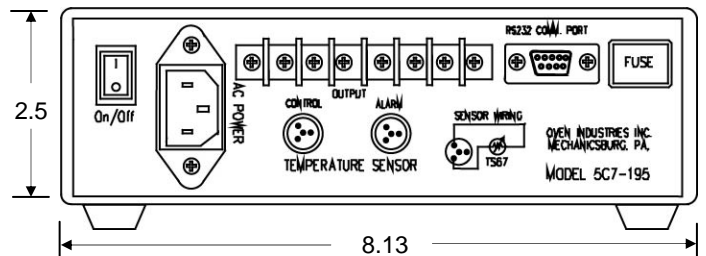


# OVENindustries

## ELECTRONIC CONTROL SOLUTIONS

### 5C7-195 THERMOELECTRIC CONTROLLER

This solid state MOSFET bidirectional desktop model has an internal power supply, full H bridge and is capable of load currents up to 4A in H bridge mode. It can control resistive heaters or TE modules with load currents up to 5A utilizing the unidirectional output and internal supply. If used in conjunction with an external power supply as heat or cool only 10A can be achieved. User friendly PC programmable via the RS232 com port which has 1500VAC isolation. Once the desired parameters are established the PC may be disconnected and the controller stands alone. All parameter settings are retained in non-volatile memory. The controller has a digital display for control functions. The front panel controls may be used to adjust the set temperature or output voltage when the internal power supply is used and view actual or alarm temperature.



### FEATURES

- Desk top design with Switchcraft connectors
- Heat, Cool or H-Bridge operating modes
- PID control, parameters set via GUI
- Front Panel Mounted 3 Digit Display
- 3.3 to 20VDC/4A Bidirectional output (internal PS)
- 3.5 to 20VDC/5A Unidirectional output (internal PS)
- 1 to 28VDC/10A Unidirectional output (external PS)
- Variable output: 3.5 to 20VDC (set via GUI or Front Panel)
- Auto output shutdown if sensor is open or shorted
- High, low and no alarm set via GUI
- RS232 communication port with 1500VAC isolation

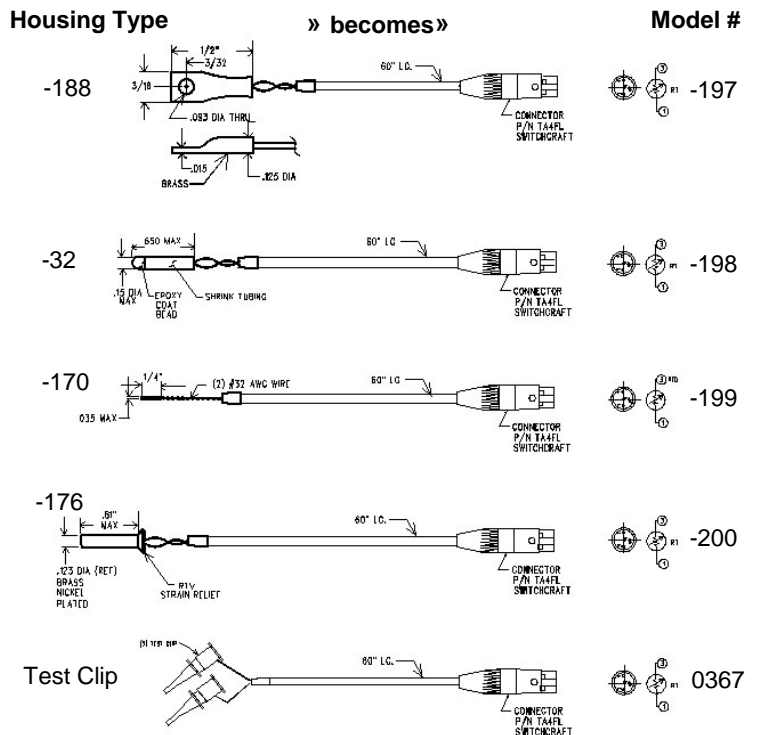
### SPECIFICATIONS

- Set temp. range: -40 to 150°C
- Temp. resolution: 0.1°C
- Set point resolution: 0.1°C
- PID Functions:
  - Bandwidth : 0.1 to 50°C
  - Integral: 0 to 10 repeats per minute
  - Derivative: 0 to 10 minutes
- Supply Voltage: 100 to 260VAC
- Ambient Temperature range: -20 to 70°C
- AC/DC Power isolation: 3000VAC
- Bidirectional load rating: 3.5 to 20VDC/4A
- Unidirectional load rating:
  - External supply: 1 to 28VDC/10A
  - Internal supply: 3.5 to 20VDC/5A
- Unidirectional output sink current: 10A max
- 2.5" x 8.13" W x 7.13" D
- Customer Drawing: CDR-00190

### ACCESSORIES

- Sensor Selection:
  - TS67 15K -20 to 110°C
  - TS91 10K -40 to 150°C
  - TS104 50K 0 to 150°C
  - TS141 5K -40 to 90°C

### Sensor Assembly with Switchcraft Connector



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