



# OVENindustries

ELECTRONIC CONTROL SOLUTIONS

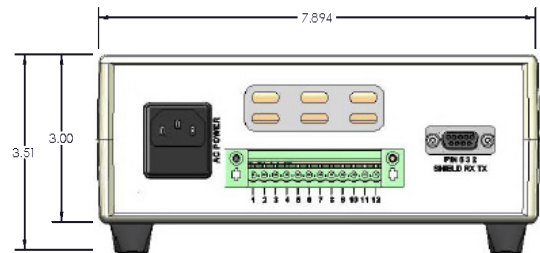
## 5R6-900 BENCHTOP THERMOELECTRIC MODULE CONTROLLER

Solid state MOSFET bidirectional compact **desktop TEM controller** with an internal power supply, full **H bridge** and is capable of load currents up to **10A**. User friendly **PC programmable** via the electrically **isolated RS232 com port**. 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 can be used to adjust output voltage and set temperature as well as view actual or alarm temperatures.



### FEATURES

- Compact size
- Thermistor and RTD sensor input
- 10 AMP load current capable
- Heat, Cool or H-Bridge operating modes
- PID control, parameters set via GUI
- Front Panel Mounted Display
- Auto output shutdown if sensor is open or shorted
- High, low and no alarm set via GUI
- Isolated RS232 communication port



### SPECIFICATIONS

- AC Input: 85 to 260 VAC; Fused at 6.3A
- Temperature resolution: 0.01°C
- Set point resolution: 0.01°C
- PID Functions:
  - Bandwidth : 0.1 to 50°C
  - Integral: 0 to 10 repeats per minute
  - Derivative: 0 to 10 minutes
- Ambient Temperature range: -20 to 50°C
- AC/DC Power isolation: 1500VAC
- Bidirectional load rating: 2.0 to 20VDC/10A
- Auxiliary DC Output (Fan Control)
- Customer Drawing: CDR-00345

### THERMISTOR SENSOR SELECTION

- TR67 1.0°C      15K   -20    to    110°C
- TR136 0.1°C    15K   -20    to    120°C
- TR91            10K   -40    to    150°C
- TR104          50K   0      to    150°C
- TR141          5K    -40    to    90°C
- TR165          231.5K 25    to    250°C
- RTD Sensor Selection:
  - PT100 & PT1000    -200°C    to    300°C

