

Series 100 SUB PANEL TEMPERATURE CONTROL

The Series 100 controller is designed for general purpose commercial and industrial temperature regulating and limiting applications. The latest solid state technology and an innovative modular packaging concept has produced an exceptionally flexible family of controllers. Low cost and many standard options make this controller uniquely suited for many OEM applications.

HIGHLIGHTS

- Iow cost
- completely enclosed
- easy mounting
- compact package
- screw terminals for field wiring
- single or dual outputs
- full two-year parts & labor warranty

FEATURES

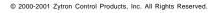
- 115/230VAC field selectable input
- Power and load-on indicator lamps
- Screw terminals with clamping plates
- ON-OFF control with adjustable differential

OPTIONS

- Relay, triac or DC outputs
- PRTD, TC or Solid State sensors
- Integral or remote setpoint pot
- ON-OFF or proportioning
- PV & SV retransmission
- Remote temperature display capability
- Heat, cool, heat/cool and limit control action

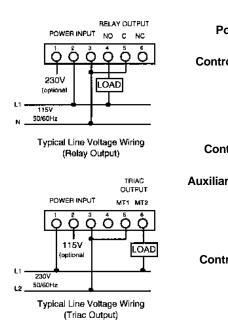


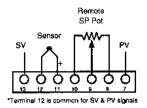
- Packaging Machines
- Environmental Chambers
- Solvent Reclamation Sys
- Commercial Dryers
- Refrigeration Equipment
- Incubators
- Laboratory Baths & Ovens
- Parts Washers & Degreasers
- □ Film Processors
- Plastic Molding Equipment
- Chillers



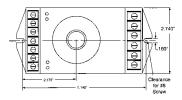


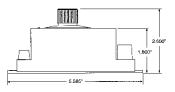
Series 100 SUB PANEL TEMPERATURE CONTROL





Typical Low Voltage Wiring (100-1B140-JT0†)





LTINUI

20 LEXINGTON AVENUE, TRENTON, NJ 08618 TEL 609 771 0101 FAX 609 771 0020

1
115/230VAC +/-10%, 50/60Hz (field selectable); 24VAC +/-10% optional
Relay rated 10 or 20 Amp resistive and 1 Amp Pilot Duty @ 120/240VAC; ZVS Opto Coupled Triac rated 1, 10 or 20 Amp 120/240VAC resistive; 24VDC to drive external Solid State Relay. *Note: MOV's and Snubbers used where applicable.
Heating (open-on-rise), Cooling (close-on-rise) or Heating & Cooling, Limit with Manual Reset
10mv/°C PV & SV retransmission or remote digital display outputs are optional.
Platinum RTD, 100 ohms @ 0°C Thermocouple, types J, K, T or E thermocouple with automatic cold junction compensation
On-Off with adjustable hysteresis from .25°C to 5°C; Time proportioning with adjustable bandwidth from 1°C to 10°C (standard cycle rate is 2 sec. for Triac output & 10 sec. for relay output, manual reset optional); Latching Hi Limit with manual reset.
Fixed SP (trim pot adjustable), local potentiometer, remote potentiometer or 0 to 10VDC programming
See ordering info for standard ranges. (Contact factory for special ranges)
Typically better than 0.5% of set point span.
Typically better than $\pm 1^{\circ}$ C with $\pm 10^{\circ}$ C change in ambient temperature or $\pm 10\%$ change in line voltage.
Open or shorted RTD or open thermocouple causes upscale output condition.
0°C to 55°C (32°F to 130°F)
* Contact factory for special requirements

specifications

series 100 SUB PANEL TEMPERATURE CONTROL ordering information MODEL 102 - 1E011 - PT02 * choose from the options below SERIES 100 **OUTPUT 2 OUTPUT 1** None None 0 0 10 Amp Rly 10 Amp Rly 1 1 **CONTROL TYPE** 1 Amp Triac 2 2 1 Amp Triac Heating 0 4 10 Amp Triac 4 10 Amp Triac Cooling 1 5 20 Amp Triac* 9 24 VDC Heating/Cooling 2 8 20 Amp Rly* 3 Heating with Tracking Alarm 9 24 VDĊ Heating with Non-Tracking Alarm 4 * available on one output only 5 Cooling with Tracking Alarm STANDARD RANGES AND SENSORS SETPOINT ADJUSTMENT * NOTE: Use suffix 00 for un-calibrated ranges Fixed Setpoint 0 PLATINUM RTD Remote Potentiometer 1 2 Local Potentiometer PT01 - 100C to +150C 3 0 to 10VDC Programmable PT02 - 20C to +260C (0F to 500F) PT03 - 20C to +540C (0F to 1000F) **CONTROL MODE** PT04 0C to +100C (32F to 212F) - 20C to +120C (OF to 250F) +20C to +60C (68F to 140F) +10C to +150C (50F to 300F) PT05 А Proportioning (Adj. BW) PT06 ON-OFF (Adj. Hysteresis) в PT07 Proportioning w/Manual Reset С PT08 +120C to +370C (250F to 700F) D Proportioning Heat/Cool ON-OFF Heat/Cool THERMOCOUPLE Е Proportioning Heat; ON-OFF Cool F _T01 - 20C to +120C (0F to 250F) G ON-OFF Heat; Proportioning Cool (0F to 500F) Hi Limit w/Manual Reset н (0F to 1000F) T03 - 20C to +540C _T04 - 20C to +1100C (0F to 2000F) AUX. OUTPUT T05 - 20C to +150C (0F to 300F)



- 0 None
- 10mv/oC PV & SP 1
- 10mv/oC PV & +5VDC PWR 3

Insert prefix J, K, T or E for thermocouple type

