

Single/Dual Input Temperature Controllers

General Description

Here in one compact package are two solid-state digital controls with timing function at exceptionally low cost. Each of the two control systems can be programmed either independently of each other or together. The two sensor inputs, one for each control system, can be programmed for either PTC, NTC, RTD or thermocouple types J or K. Control outputs are 10A relay SPST. The relay output can be used to drive heater loads and alarms. Incorporated into Series 100 is a timer, configurable in either minutes/ or seconds or hours/minutes. The timer can be used to enable a set temperature at a particular preset time or disable a process at a particular preset time. The timer is fully compatible with the control functions and avoids the need for separate time and temperature controls. Series 100 is supplied as an open board for sub-panel mounting or in a moisture-proof plastic enclosure for wall or external mounting.

Series QT-100 is designed for numerous commercial and industrial applications, including:

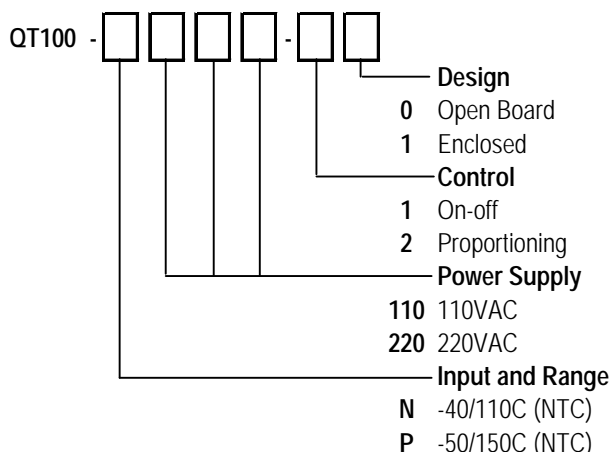
- Environmental chambers
- Time temperature cooking (oven and food product control with timing)
- Pizza oven control (roof and bedplate control)
- Fryer controller (Melt cycle for fat dissolution and frying time)
- Sterilizer system (example for knives)
- Thermal press controller (working set point and count down time)
- Regulation of two fans independently or relative to each other



Specifications

Range, dual set points 40/110C (NTC) -50/150C (PTC), -99/600C (RTD), -99/700C (J T/C), -99/999C (K T/C)
Power 110VAC or 220VAC
Control On-off or time-proportioning (hysteresis programmable from 1 to 20 deg C)
Resolution 1 degree C
Accuracy ±10% full scale
Display 3 digit LED, 0.5in
Control output One or two SPDT 10 relays for 250VAC – settable by the user
Timer set point From 0 to 599 minutes or hours – for set period or duty cycle % on/off – settable by the user
Timer display Minutes/second or hours/minutes – settable by the user
Operating environment 0 to 60 deg C, 10 to 90% non-condensing
Sensor protection On open or short circuit
Overall dimensions Open board (x x in). Plastic case design (4.3 x 5.9 x 4.9 in)
Mounting Wall mounting plate (open board is also supplied on four mounting standoffs)
Case for enclosed design Meets NEMA 4

How to Order



Wiring

