

# Model 6652 Universal Temperature Controller



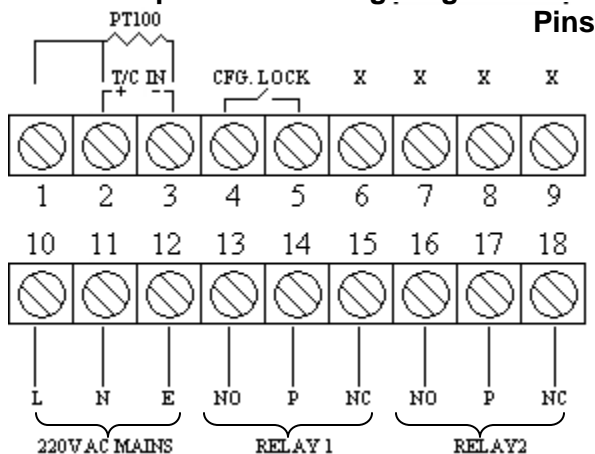
## Features

- Microprocessor based controller, linearised for PT100 sensor & 3 thermocouples (J,K,R) with Auto cold junction compensation
- Separate displays for Temperature and Set Point
- Separate heater & cooler/alarm logic relays
- Offset digitally programmable from front
- Configuration lockable by rear jumper
- Proportional/On-Off control user selectable
- User programmable hysteresis band
- Percentage on time settable to avoid overshoots and save power
- Non-volatile memory to save settings
- Aesthetically designed front panel with membrane switches

## Specifications

- Display : 4 digit 0.56" 7 segment Red LED display for Temperature  
4 digit 0.56" 7 segment Green LED display for Set Point
- Sensor : J,K,R & 3 wire PT100
- Range : J T/C: 0 to 750°C K T/C: 0 to 1250°C R T/C: 0 to 1700°C PT100: -100.0 to 600.0°C
- Accuracy :  $\pm 0.1\%$  of Full Scale  $\pm 1$  digit
- Relay Logic : On/Off or time proportional with 20 sec cycle time for heater relay (Relay 1)  
On/Off for Cooler / Alarm Relay (Relay 2).  
5 Amps/220V AC Relay Contact outputs
- Proportional Band : -7.0°C to +3.0°C around set point with 10% per degree cut
- Hysteresis Band : Settable from 0°C to 20.0°C
- Percentage Power : User programmable from 0% to 100% to avoid overshoots and save power
- Offset : Settable from -20.0°C to +20.0°C
- Memory : Non-volatile EEPROM to save settings
- Configuration Lock : On rear terminals to prevent tampering with configuration except Set Point
- Supply : 220V AC  $\pm 15\%$  @ 50/60Hz
- Dimensions : Front Fascia: 96mm x 96mm x 135mm. Cut Out : 91mm x 91mm
- Weight : 800 grams

## Pin Description and Wiring Diagram



### Pins

1. Third terminal of 3 wire PT100 sensor
2. Positive terminal for Thermocouple/PT100 sensor
3. Negative terminal for Thermocouple/PT100 sensor
4. Configuration lock terminal (Open to lock)
5. Configuration lock terminal
10. Line (220V AC)
11. Neutral
12. Earth
13. Normally open contact of Relay 1
14. Pole contact of Relay 1
15. Normally closed contact of Relay 1
16. Normally open contact of Relay 2
17. Pole contact of Relay 2
18. Normally closed contact of Relay 2

## Directions for Usage

- Current temperature is displayed on upper display and Set Point is displayed on lower display.
- To change Set-1, use increment  $\triangle$  and decrement  $\nabla$
- To change Set-2, with SV-2 (SV2) pressed, use increment  $\triangle$  and decrement  $\nabla$

Manufactured By:

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