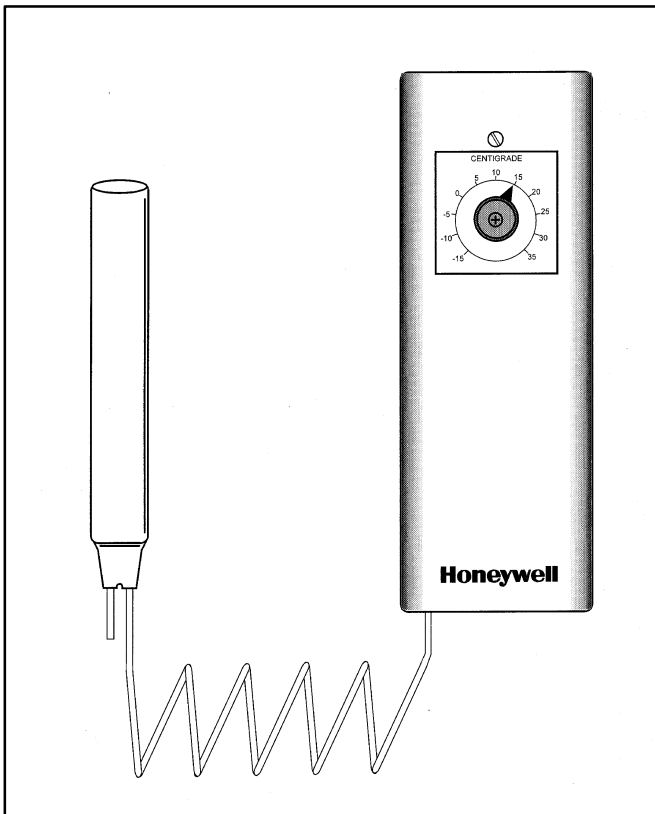


## T991 REMOTE BULB TEMPERATURE CONTROLLER

### PRODUCT DATA



### FEATURES

- Liquid filled remote bulb for accurate temperature sensing
- Ambient temperature compensation to eliminate control offset
- Throttling dial inside case adjusts proportional range
- Front mounted adjustment knob with large clear scale
- Temperature ranges to suit most air and liquid temperature control applications
- Robust steel surface mount housing with knock-out conduit entry

### DESCRIPTION

The T991 is a proportional remote bulb temperature controller for controlling the temperature in ducts, tanks, boilers, etc.

The sensing element is connected to the controller by means of a liquid filled capillary tube of specified length.

The T991 provides a modulating output to position a Modutrol motor in a Honeywell Series 90 proportional control circuit.

## SPECIFICATIONS

Supply voltage	: 120 ... 230 V~, 50 ... 60 Hz
Potentiometer	135 ohms
Operating temperature	: 52°C Maximum
Operating pressure	: 345 kPa Maximum
Adjustment	: Knob on dial
Modulating range	: See table
Mounting	: Surface mounting using slotted holes in back of case
Bulb dimensions	: See table
Capillary length	: 1.5 m (5')
Case Dimensions	: 143 x 51 x 67 (5 <sup>5</sup> / <sub>8</sub> " x 2" x 2 <sup>5</sup> / <sub>8</sub> ") h x w x d

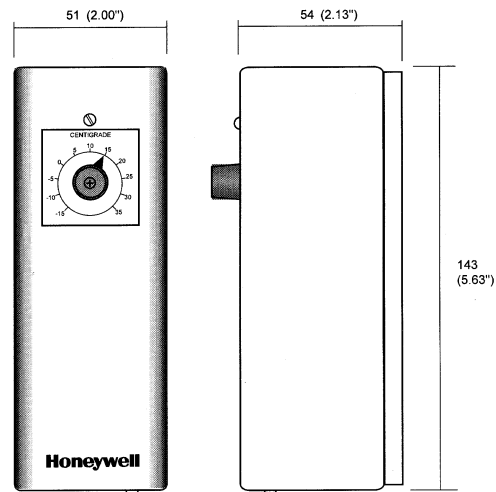
## ORDERING SPECIFICATION

Model	Setpoint Range	Max. Element Temp.	Mod. Range	Bulb Size
T991A1525	-15..35°C	52°C	1.7..17°C	Ø13 x 106
T991A1545	30..80°C	93°C	1.7..17°C	Ø13 x 106
T991A1566	75..125°C	138°C	1.7..17°C	Ø13 x 106
T991A1608	15..75°C	93°C	2..20°C	Ø13 x 90
T991A1640	40..100°C	116°C	2..20°C	Ø13 x 90
T991A1822	-15..35°C	52°C	1.7..17°C	*
T991A1921	0..60°C	80°C	2..20°C	Ø13 x 90

### IMPORTANT

1. The installer must be a trained service engineer
2. Disconnect the power supply before beginning installation

## DIMENSIONS



Dimensions in millimetres (inches in brackets)

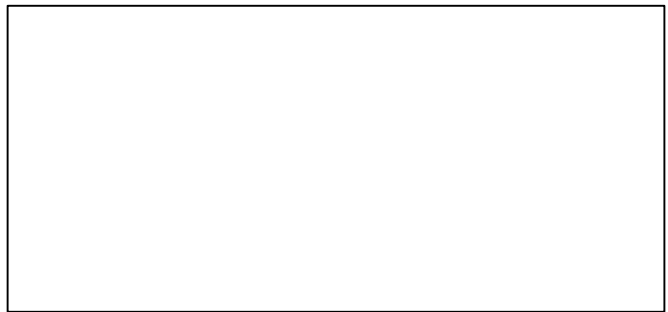
## INSTALLATION

### Mounting

The controller can be surface mounted in any position using the slotted holes on the rear.

The bulb should be located where it will be exposed to the average temperature of the controlled medium. Do not kink or bend the capillary tube sharply. Excess tubing should be coiled beneath the case.

## WIRING



**NOTE:** The T991 A should be connected to the Modutrol motor R to R, B to B and W to W if the motor is required to drive the valve or damper open on a fall in temperature of the controlled medium. If the opposite action is required, reverse the B and W connections at the Modutrol motor.

**Honeywell**

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