R1 and R3
Adjustable Control Thermostats

Application...

Electric Heat Tracing Control
The R1 and R3, equipped with double-pole switches, are designed for use as adjustable control thermostats for freeze protection and temperature maintenance applications requiring pipewall or tankwall sensing.

R1... This cost-effective thermostat, designed for use in indoor/protected locations, utilizes a painted steel NEMA 1 enclosure to house the thermostat switch while permitting temperature adjustments without removing any cover.

R3... A gasketed cast aluminum enclosure provides weatherproof protection to the thermostat switch and internal setpoint dial.

The R1 thermostat is approved for indoor/protected use in ordinary (nonclassified) locations. The R3 is approved for indoor/outdoor use in ordinary (nonclassified) locations.

Ratings/Specifications...

Voltage rating ............................................................ 277 Vac
Switch rating ............................................................ 25 amps
Switch type ............................................................ DPST
Electrical connection
R11 ........................................... screw terminals on switch
R32 .............................................................12 AWG leads
Adjustable control range
R1 ....................................... 0°C to 50°C (32°F to 122°F)
R3 ..................................... 0°C to 120°C (32°F to 248°F)
Maximum control differential
R1 ............................................................... 1.8°C (3.2°F)
R3 ............................................................... 4.3°C (7.7°F)
Setpoint repeatability
R1 ............................................................. ±0.4°C (0.7°F)
R3 ............................................................. ±1.1°C (2.0°F)
Maximum bulb exposure temperature
R1 ............................................................... 68°C (154°F)
R3 ............................................................... 200°C (392°F)
Bulb dimensions
R1 ............................................. 6 x 300 mm (1/4" x 12")
R3 ........................................ 6 x 140 mm (1/4" x 5-1/2")
Bulb material .............................................................. copper
Capillary length ................................................ 300 cm (10')
Capillary material .......................................................... copper

Notes...
1. The R1 utilizes two ½" or ¾" conduit knockouts with an internal grounding terminal.
2. The R3 utilizes two ½" NPT conduit hubs with an internal grounding terminal.