tekmar[®] Submittal One Stage Setpoint Control 150



Job

____ Designer

Contact

The One Stage Setpoint Control 150 is designed to operate a single component of a heating or cooling system in order to maintain a set temperature. It can be used in applications ranging from heating a swimming pool to maintaining a constant slab temperature in a commercial car wash bay. This control regulates a constant setpoint water temperature for heating or cooling. The 150 is designed to operate a single relay (rated at 240 V, 8 A) to control a single device such as a boiler, pump, or valve.



Specifications

| One Stage Setpoint Control 150 | |
|--------------------------------|---|
| Literature | D150, A150, D001, D070 |
| Control | Microprocessor control. This is not a safety (limit) control |
| Packaged weight | 1.0 lb. (450 g) |
| Dimensions | 4-3/4" H x 2-7/8" W x 7/8" D (120 x 74 x 22 mm) |
| Enclosure | White PVC plastic, NEMA type 1 |
| Approvals | CSA C US, meets class B: ICES & FCC Part 15 |
| Ambient conditions | Indoor use only, -20 to 120°F (-30 to 50°C), RH ≤90% Non- condensing |
| Power supply | 24 V (ac) ±10%, 50/60 Hz, 1.3 VA, 24 V (dc) ±10%, 0.02 A |
| Relay | 240 V (ac) 8 A max, 1/4 hp |
| Sensors | NTC thermistor, 10 k Ω @ 77°F (25°C ±0.2°C) ß=3892 |
| -Included | Universal Sensor 071 |
| -Optional | tekmar type #: 070, 071, 072, 073, 076, 077, 078, 079, 082, 083, 084 |
| Programmed settings | Ten year memory backup |
| Control accuracy | $\pm 0.5^\circ F$ ($\pm 0.3^\circ C)$ with up to 500 ft. (150 m) of 18 AWG wire to sensors |
| Temperature display | -85 to 302°F (-65 to 150°C) |
| Setpoint operation | -40 to 239°F (-40 to 115°C) |
| Differential (Bang/Bang) | 1 to 40°F (1 to 22°C) |
| Differential (PWM) | 3 to 40°F (2 to 22°) |
| Time delay (Bang/Bang) | 0 to 19 min. 50 sec. |
| Cycle length (PWM) | 30 sec. to 19 min. 50 sec. |
| Operating mode | Heating / Cooling |
| Temperature display | Fahrenheit / Celsius |
| Warranty | Limited 3 Year (See D150 for full warranty) |
| | |

Features

- Heat or Cool Setpoint Control
- Pulse Width Modulation Control
- Digital display
- · Normally open AND normally closed relay

SPECIAL REQUIREMENTS

N / A

Sample Application Drawing

Below is a sample application drawing for this product. This application may include other tekmar products that are required for installation. More sample applications can be found at www.tekmarcontrols.com.



