

PRODUCT SUBMITTAL 666

Product: **Single-Stage Non-programmable Radiant Heating Thermostat (519) with Floor Sensor**
Date: **27 February 2015**



| Article No. | Description | Unit Weight lb (kg) |
|-------------|--|---------------------|
| 398022-001 | Single-Stage Non-programmable Radiant Heating Thermostat (519) with Floor Sensor | 0.60 (0.27) |

TECHNICAL DESCRIPTION

| Single-Stage Non-programmable Radiant Heating Thermostat 519 | |
|--|---|
| Control | Microprocessor control. This is not a safety (limit) control |
| Packaged weight | 0.6 lb (290 g) |
| Dimensions | 3 11/16 H x 3 W x 15/16 in. D (94 x 76 x 24 mm) |
| Enclosure | White PVC plastic, NEMA type 1 |
| Approvals | Meets Class B: ICES & FCC Part 15 |
| Ambient conditions | Indoor use only, 32 to 122°F (0 to 50°C), RH ≤90% non-condensing |
| Power supply | 10 to 30 V (ac/dc), 50/60 Hz, 1.8 VA standby, 56 VA max fully loaded, Class 2 |
| Relay | 30 V (ac/dc) 2 A, Class 2 circuits |
| Sensor | NTC thermistor, 10 kΩ @ 77°F (25°C±0.2°C) β=3892 |

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| | |
|------------------------|---|
| Slab Sensor 079 | |
| Dimensions | 3/16 OD x 1 1/2 in (5 OD x 38 mm) |
| Enclosure | 316 stainless steel, 10 ft (3 m) 24 AWG, 300 volt PVC insulated zipcord |
| Approvals | CSA C US |
| Operating range | -58 to 140°F (-50 to 60°C) |
| Sensor | NTC thermistor, 10 kΩ @ 77°F (25°C±0.2°C) β=3892 |

FUNCTIONAL DESCRIPTION

Single-Stage Non-programmable Radiant Heating Thermostat with floor sensor is designed specifically to control hydronic radiant heating zones using pulse width modulation (PWM) technology. Simple up and down buttons and a display with large type make this thermostat easy to read and use. Included slab sensor measures radiant floor temperature to protect the floor from overheating and to enhance comfort.

The thermostat requires 24 VAC power supply and can be used to directly control up to seven REHAU manifold actuators (Art. 260166). This thermostat can also be used with REHAU zone controls. 4-conductor 18 AWG or similar wire is recommended for all 24 VAC wiring.

Additional features:

- Auto heating cycle
- Radiant floor heating
- Pulse width modulation
- Floor- and air-temperature control
- Outdoor and floor temperature display
- Backlight
- Freeze protection