| Job Name | Contractor |
|--------------|-----------------------|
| Job Location | Approval |
| Engineer | Contractor's P.O. No. |
| | Representative |
| Approval | nepresentative |

Radiant Thermostat 519

Dimensions: 3-11/16" H x 3" W x 15/16" D (94 x 76 x 24 mm)

The Watts Radiant Thermostat 519 accurately controls the room and/or floor temperature for a hydronic heating zone 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. A Floor Sensor is included to measure floor temperature to protect the floor from overheating and enhance comfort.

Radiant Thermostat 519

| DESCRIPTION | PROPERTY |
|--------------------|---|
| Packaged weight | 0.6 lb. (270 g) |
| Dimensions | 3-11/16" H x 3" W x 15/16" 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 | 30V (ac/dc) 2 A, Class 2 circuits |
| Sensor | NTC thermistor, 10 k Ω @ 77°F (25°C ±0.2°C) β =3892 |

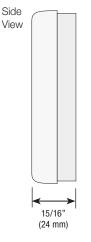


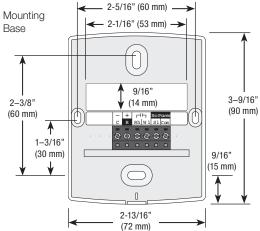
Radiant Thermostat 519 with Floor Sensor 079

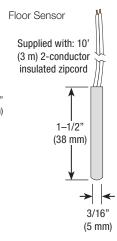
Features

- Auto Heating Cycle
- Radiant Floor Heating
- Pulse Width Modulation
- Floor & Air Temperature Control
- Outdoor & Floor Temperature Display
- Backlight
- Freeze Protection
- Includes Floor Sensor









Floor Sensor 079

| DESCRIPTION | PROPERTY |
|-----------------|---|
| Dimensions | 3/16" OD x 1-1/2" (5 mm OD x 38 mm) |
| Sensor Material | 316 stainless steel, 10' (3 m) 24 AWG, 300 volt PVC insulated Zipcord |
| Approvals | CSA C US |
| Operating range | -58 to 221°F (-50 to 105°C) |
| Sensor | NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892 |

| Product Options | | | | | |
|------------------------|------------------------|--------|----------|--|--|
| Qty | Description | Model# | Order# | | |
| | Radiant Thermostat 519 | 300152 | 81016550 | | |
| | Floor Sensor 079 | 300153 | 81016551 | | |



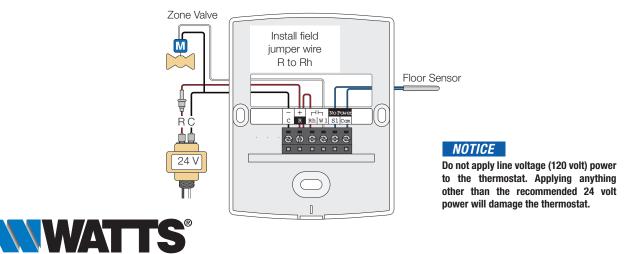
CONTROL SETTINGS AND PARAMETERS

The following settings are essential to the successful operation of the heating system.



- Press and hold down both the Δ and ∇ buttons for 3 seconds to change from one step to the next.
- Release both buttons once the step has been reached.
- Press the Δ or the ∇ button to change the setting, if available.
- ullet Press and hold down both the Δ and abla buttons for 3 seconds to go to the next step, OR
- After 15 seconds of no button activity, the display goes back to normal operation.

| DISPLAY | SETTING | | | |
|---|---|--|--|--|
| User settings. | | | | |
| HEAT | MODE Select heat or off. | | | |
| UNITS F | UNITS Select the temperature units in degree Fahrenheit or Celsius. | | | |
| PUTO | BACK LIGHT Select when the display back light should operate. Options are Off, Auto, and On. Auto operates the backlight for 30 seconds after a keystroke. | | | |
| SET FLOOR | SET FLOOR Set the floor minimum temperature. Available when an auxiliary floor sensor is connected and the built-in room temperature sensor is on. | | | |
| 5 19 | TYPE Device Type number. Hold the \triangle button to view the software version. | | | |
| ESCAPE | Release the Δ and ∇ buttons to return to the home screen. | | | |
| Installer settings. Press the \triangle and ∇ buttons together for 5 more seconds. | | | | |
| AUX SENSA NONE | AUXILIARY SENSOR Select the type of auxiliary sensor. Available when an auxiliary sensor is automatically detected. NONE = no auxiliary sensor, ROOM = Indoor Sensor, OUT = Outdoor Sensor, FLOR = Floor Sensor | | | |
| SENSOR ON | ROOM SENSOR Select if the built-in room temperature sensor is on or off. The built-in room sensor can only be disabled when an auxiliary room or slab sensor is connected. | | | |
| SET FLOOR | FLOOR MAXIMUM Set the floor maximum temperature in order to protect the floor covering. Suggested settings: Tile = 90°F (32°C), Wood Floor = 85°F (29°C) | | | |
| ESCAPE | Release the Δ and ∇ buttons to return to the home screen. | | | |



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