tekmar® Submittal
Radiant Thermostat 519

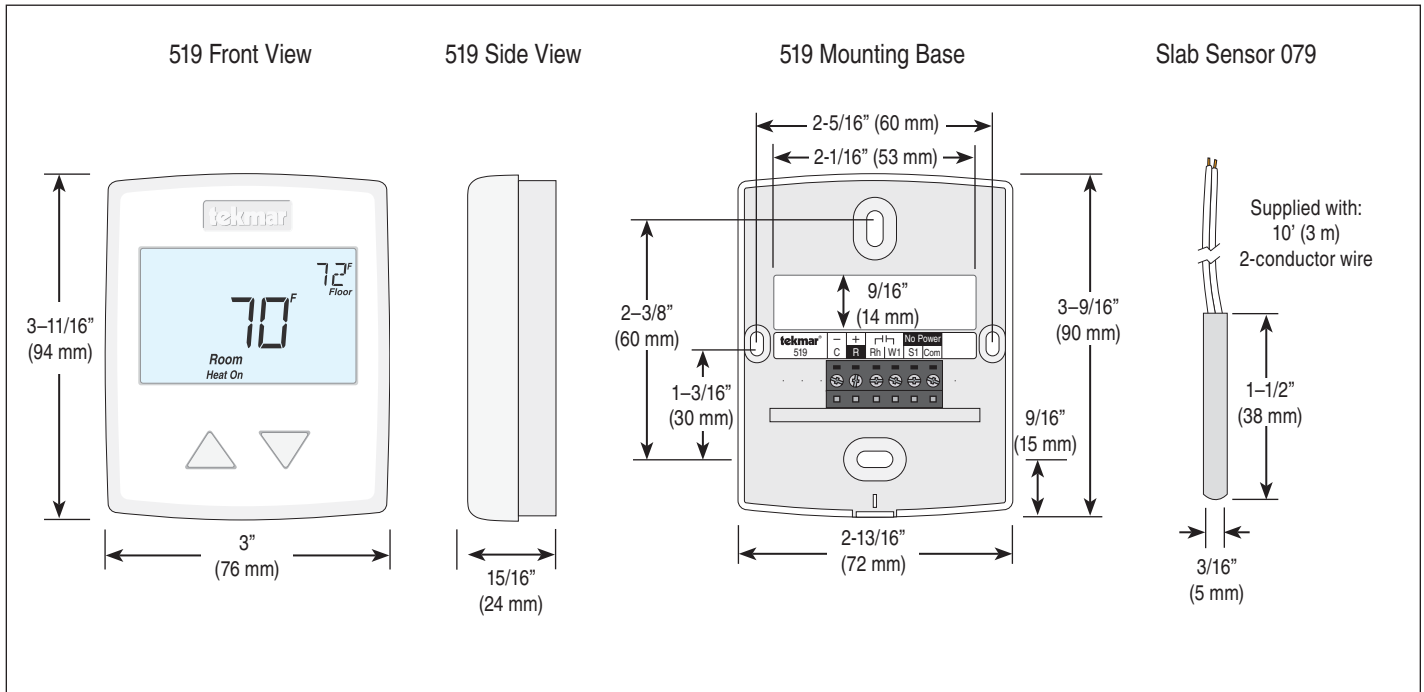Job _____ Designer _____ Contact _____

The 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 Slab Sensor 079 is included to measure floor temperature to protect the floor from overheating and enhance comfort. This easy to install thermostat is a direct replacement for the tekmar Thermostat 509.

519 Front View   519 Side View   519 Mounting Base   Slab Sensor 079

Specifications

Radiant Thermostat 519 *One Stage Heat*

Literature	519_C, 519_D, 519_Q, 519_U
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" 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) ß=3892
–Included	Slab Sensor 079
–Optional	tekmar type # 070, 072, 073, 076, 077, 079, 084
Warranty	Limited 3 Year (See 519_D for full warranty)

Slab Sensor 079 *10' (3 m) wire*

Dimensions	3/16" OD x 1-1/2" (5 OD x 38 mm)
Enclosure	316 stainless steel, 10' (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) ß=3892

Energy Saving Features
- Auto Heating Cycle

Additional Features
- Radiant Floor Heating
- Pulse Width Modulation
- Floor & Air Temperature Control
- Outdoor & Floor Temperature Display
- Backlight
- Freeze Protection
- Includes Slab Sensor 079

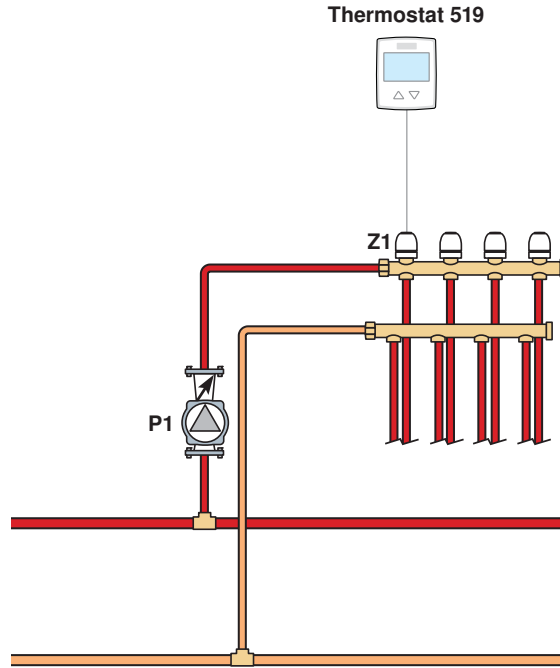Scan code for quick link to product page on tekmarControls.com

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.

Sample Mechanical diagram

Legend
P1 = Manifold Pump
S1 = Optional Slab Sensor 079
T1 = 24 V (ac) Transformer 009
Z1 = Zone Valve

Thermostat 519

Sample Electrical diagram

Install field jumper wire R to Rh

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519	C	R	Rh	W1	S1	Com

All specifications are subject to change without notice.
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