

Submittal

Thermostat 518



Zoning

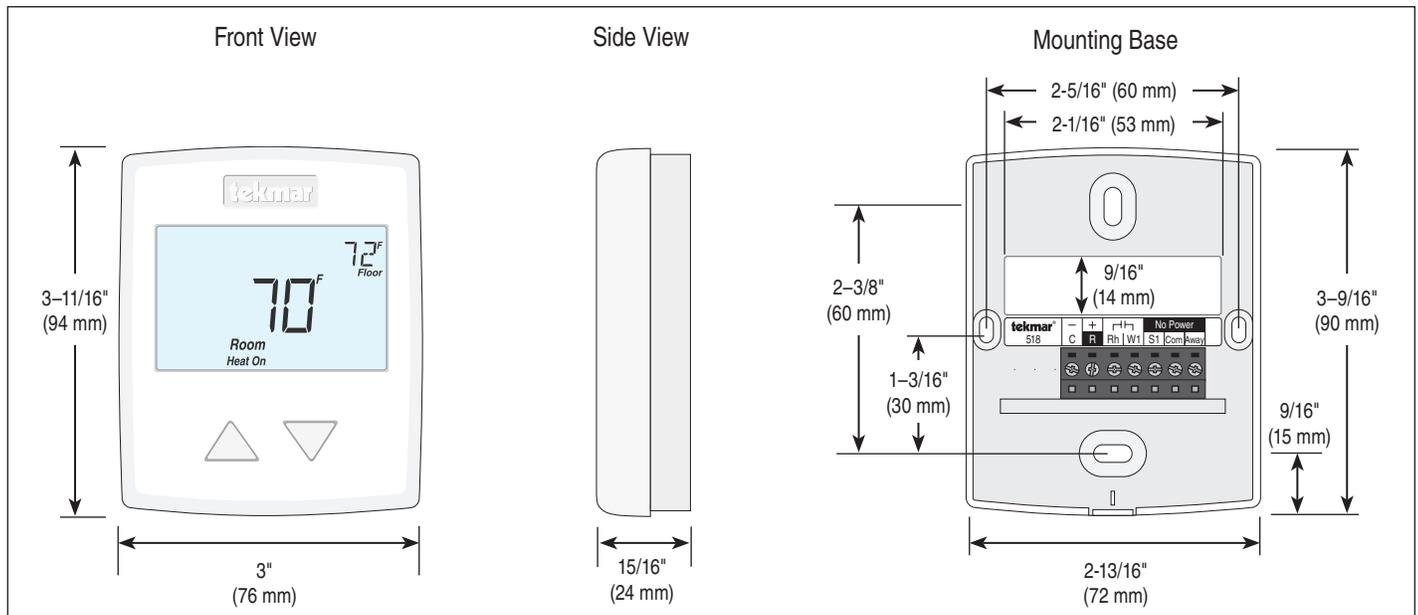
518_C

06/16

Replaces: 03/13

Job _____ Designer _____ Contact _____

The Thermostat 518 accurately controls the room 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. The 518 automatically detects a single auxiliary sensor to measure either outdoor, floor or remote room temperature. This easy to install thermostat is a direct replacement for tekmar Thermostats 507 and 508.



Specifications

Thermostat 518 One Stage Heat	
Literature	518_C, 518_D, 518_Q, 518_U
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	0.53 lb. (240 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 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	None
-Optional	tekmar type # 070, 072, 073, 076, 077, 079, 084
Warranty	Limited 3 Year (See 518_D for full warranty)

Energy Saving Features

- Away Input
- Auto Heating Cycle

Additional Features

- Radiant Floor Heating
- Pulse Width Modulation
- Auxiliary Sensor Input
- Outdoor & Floor Temperature Display
- Backlight
- Freeze Protection

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SPECIAL REQUIREMENTS

An auxiliary sensor must be used to measure any auxiliary sensor temperatures.

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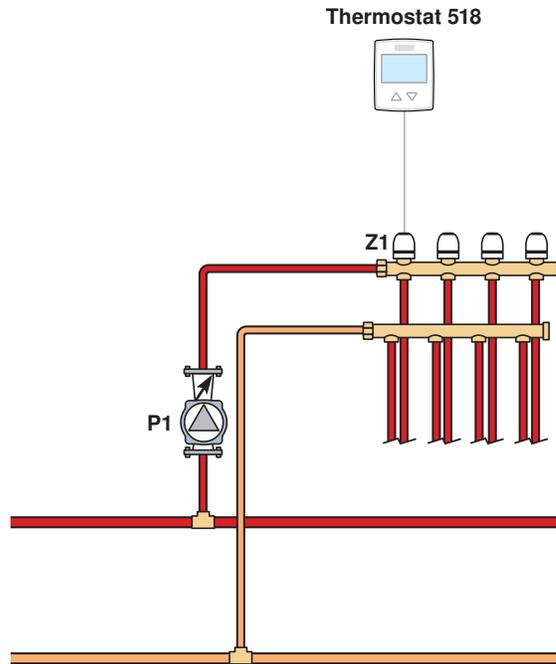
Sample Application Drawing

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 tekmarControls.com.

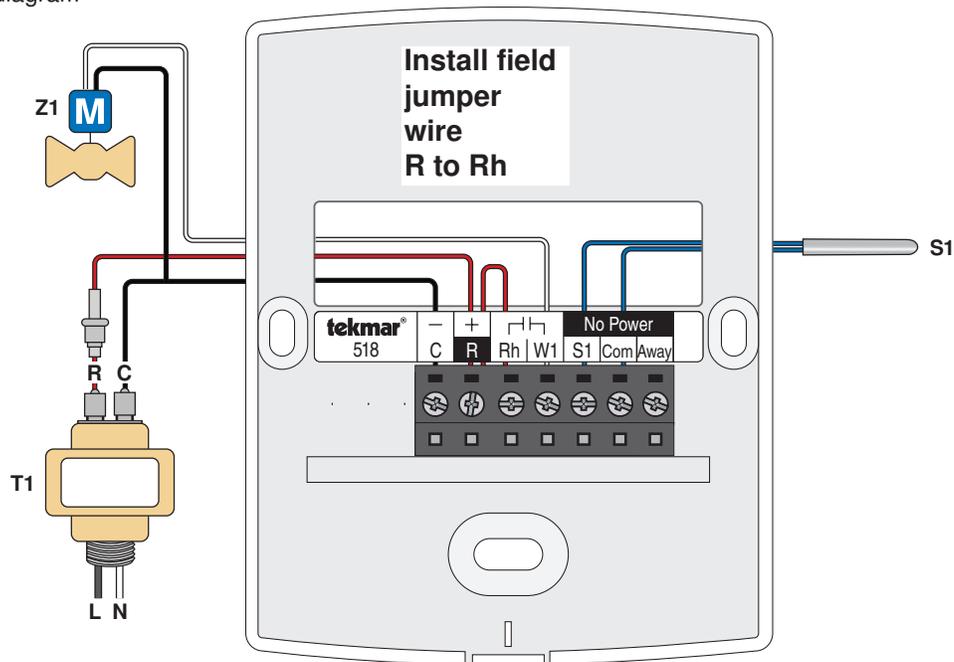
Sample Mechanical diagram

Legend

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



Sample Electrical diagram



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All specifications are subject to change without notice.

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