

# tekmar® Submittal

## tekmarNet® Thermostat 552



Zoning

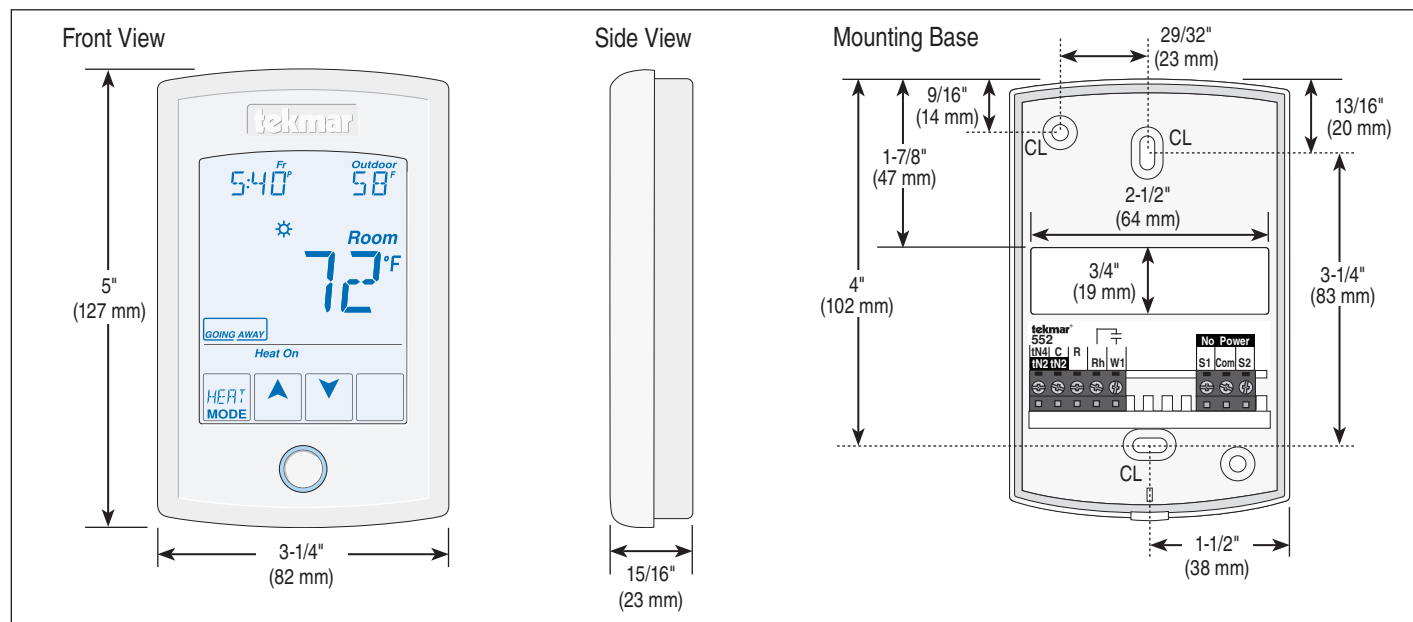
**552\_C**

09/14

Replaces: 07/11

Job \_\_\_\_\_ Designer \_\_\_\_\_ Contact \_\_\_\_\_

The tekmarNet® Thermostat 552 is a communicating touchscreen thermostat designed for hydronic heating systems. The extra large touchscreen display allows you to easily adjust 7-day programmable schedules and room temperatures to optimize comfort and energy savings. It operates a single zone of heating and has two auxiliary sensor inputs that can be assigned to measure room, floor, or outdoor temperature. An optional floor sensor allows precise heating of radiant floors by controlling the floor temperature and maintaining the desired room air temperature. Alternatively the room air temperature sensor can also be disabled to solely maintain a minimum floor temperature. The 552 can be wired using 2 or 4 wires to connect to tekmarNet® zoning controls, or can be installed as a stand-alone thermostat using 3 wires.



### Specifications

| tekmarNet® Thermostat 552 One Stage Heat |  |
|--|--|
| Literature                               | 552_C, 552_D, 552_Q, 552_U   |
| Control                                  | Microprocessor control. This is not a safety (limit) control               |
| Packaged weight                          | 0.8 lb. (350 g)  |
| Dimensions                               | 5" H x 3-1/4" W x 15/16" D (127 x 82 x 23 mm)                              |
| Enclosure                                | White ABS / PC plastic   |
| 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                             | 24 V ±10%, 50/60 Hz, 1.8 VA Standby, 56 VA fully loaded, NEC / CEC Class 2 |
| Relay                                    | 24 V (ac) 2 A  |
| Sensors                                  | NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892                          |
| —Included                                | None   |
| —Optional                                | tekmar type # 070, 072, 073, 076, 077, 078, 079, 084                       |
| Warranty                                 | Limited 3 Year (See 552_D for full warranty)                               |

### Energy Saving Features

- Warm Weather Shut Down
- Zone Synchronization
- Zone Post Purge
- Programmable Schedule
- Away Scene Key
- Auto Heating Cycle

### Additional Features

- tekmarNet® Communication Compatible
- Touchscreen
- 2 Auxiliary Sensor Inputs
- Floor Warming (with 079 slab sensor)
- Pulse Width Modulation
- Outdoor Temperature Display
- Optional Floor Temperature Display
- Air Group Member
- Backlight
- Freeze Protection
- Equipment Exercising
- Room Temperature Limiting

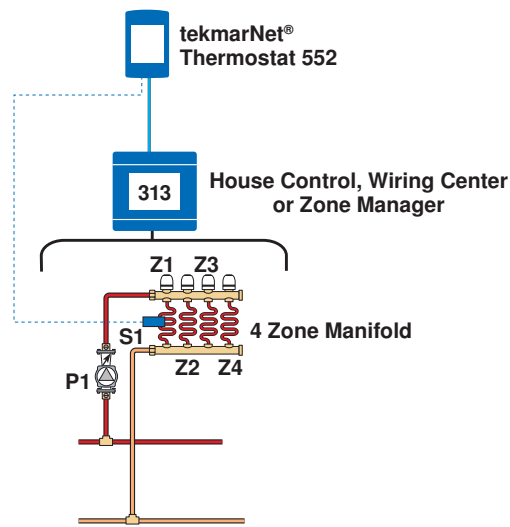
### SPECIAL REQUIREMENTS

This thermostat is designed to be used with a tekmarNet® Wiring Center or Zone Manager for power and communication. It can also be used in stand alone applications.

## 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](http://www.tekmarControls.com).

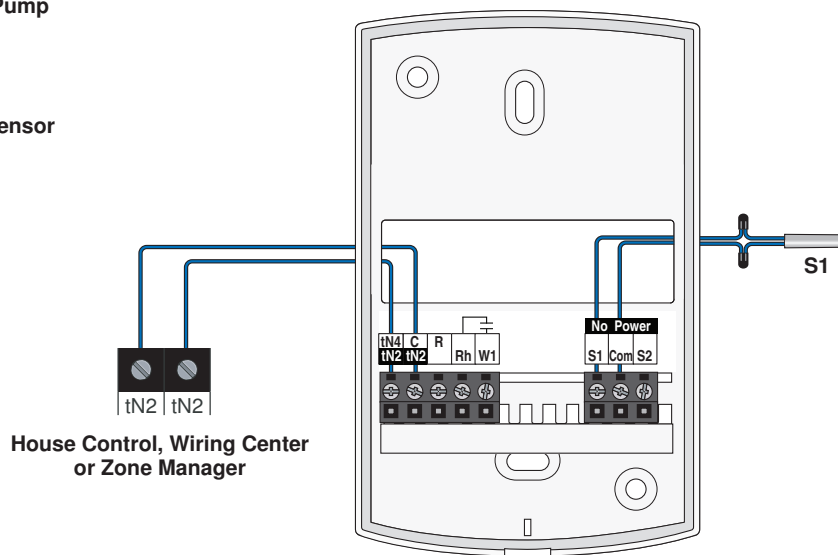
Sample  
Mechanical



Sample  
Electrical

### Legend

P1 = Zone Manifold Pump  
Z1 = Zone 1  
Z2 = Zone 2  
Z3 = Zone 3  
Z4 = Zone 4  
S1 = Optional Slab Sensor



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