

tekmar® Submittal

tekmarNet® 2 Thermostat 528



Zoning

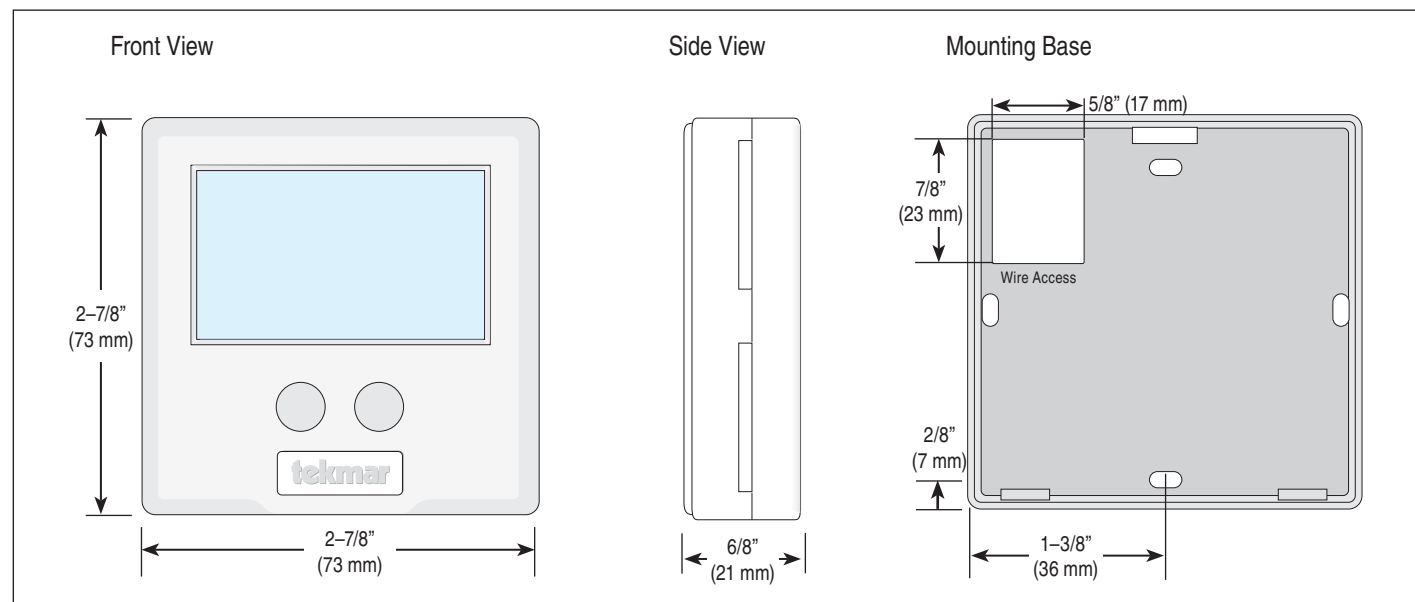
C 528

12/11

Replaces: 01/11

Job _____ Designer _____ Contact _____

The tekmarNet® 2 Thermostat 528 is designed to operate mechanical equipment to deliver heat to a single zone within a hydronic heating system. It can be used with any terminal unit type, including radiant floor, baseboard, and fan coils. It is capable of controlling a zone valve or zone pump through a tekmarNet® 2 House Control, Wiring Center, or Zone Manager in order to maintain air and an auxiliary temperature. The auxiliary temperature is typically a floor temperature, but could also be a remote air sensor.



Specifications

| tekmarNet® 2 Thermostat 528 One Stage Heat | |
|--|---|
| Literature | D528, Q528, U528 |
| Control | Microprocessor control. This is not a safety (limit) control |
| Packaged weight | 0.8 lb. (380 g) |
| Dimensions | 2-7/8" H x 2-7/8" W x 13/16" D (73 x 73 x 21 mm) |
| Enclosure | White PVC plastic, NEMA Type 1 |
| Approvals | CSA C US, meets Class B: ICES & FCC Part 15 |
| Ambient conditions | Indoor use only, 32 to 122°F (0 to 50°C), RH ≤80% to 88°F (31°C), down to 50% above 104°F (40°C), Altitude <6560 ft. (2000 m), Installation Category II, Pollution Degree 2 |
| Power supply | Provided by tekmarNet®2 Control, 1.3 VA |
| Sensors | 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 D528 for full warranty) |

Energy Saving Features

- Zone Synchronization
- Zone Post Purge
- Intelligent Setback (With tekmar 033 timer)
- One touch overrides (with optional user switch)
- Auto Heating Cycle

Additional Features

- tN2 Communication compatible
- Room temperature limiting
- Requires 2 Wires
- Pulse Width Modulation
- CSA C US Approved for use in USA and Canada
- Outdoor Temperature Display
- Air Group Member
- Backlight
- Freeze Protection
- Equipment Exercising
- Floor Warming (With 079 Slab Sensor)
- 1 Auxiliary Sensor input
- Supports Radiant Floor Cooling

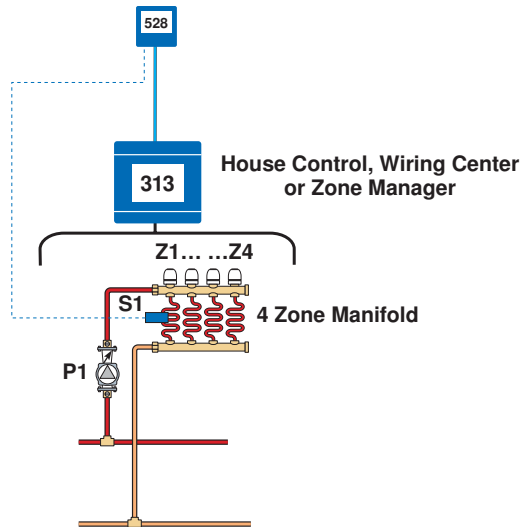
SPECIAL REQUIREMENTS

This thermostat must be used with a tekmarNet® 2 House Control, Wiring Center, or Zone Manager for power and communication.

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



Sample Electrical diagram

Legend

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

