# **tekmar**<sup>®</sup> Submittal tekmarNet<sup>®</sup> 4 Thermostat 545



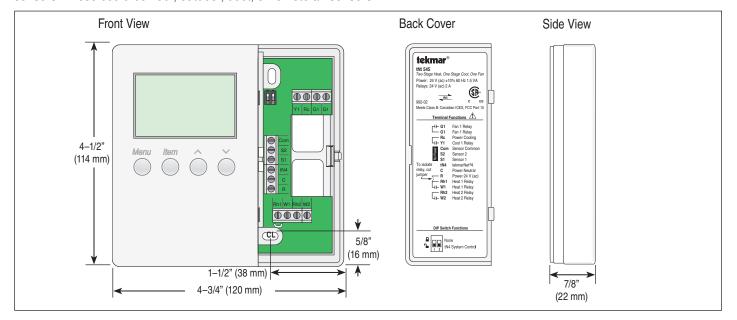


Zoning

Replaces: New

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The tekmarNet®4 Thermostat 545 is designed to operate mechanical equipment to deliver 2 stages of heating and cooling to a single zone within a hydronic heating system while maintaining a programmable setback schedule. It can be used with any terminal unit type, including radiant floor, baseboard, fan coils, and non-hydronic sources. This product is capable of controlling 2 zone valves or pumps directly or through a tekmarNet®4 Wiring Center or Zone Manager, a cooling device, and a fan, while reading up to 2 auxiliary sensors. These could be floor, outdoor, duct, or remote air sensors.



# **Specifications**

tekmarNet®4 Thermostat 545 Two Stage Heat, One Stage Cool, One Fan		
Literature	D545, W545, J545, U545	
Control	Microprocessor control. This is not a safety (limit) control	
Packaged weight	1.2 lb. (540 g)	
Dimensions	4-1/2" H x 4-3/4" W x 7/8" D (114 x 120 x 22 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	24 V (ac) ± 10%, 60 Hz, 1.5 VA	
W1 & W2 relays	24 V (ac) 2 A max	
Y1 & G1 relays	24 V (ac) 2 A max	
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892	
-Included	None	
-Optional	tekmar type # 070, 071, 072, 073, 076, 077, 078, 079, 082, 083, 084	
Warranty	Limited 3 Year (See D545 for full warranty)	

# **Energy Saving Features**

- · Zone Synchronization
- Zone Post Purge
- Programmable setback schedule
- One touch overrides (with optional User Switch)
- Auto Heating Cycle
- Cooling Interlock

#### **Additional Features**

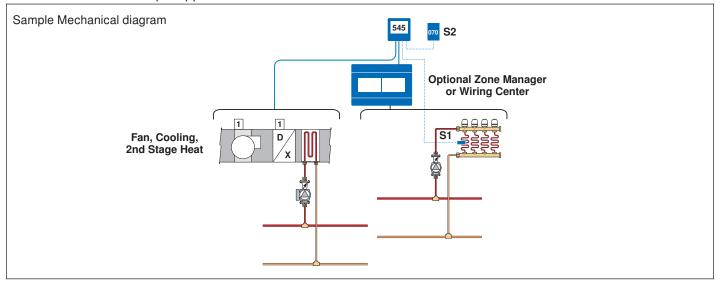
- tekmarNet®4 communication compatible
- · Requires 9 wires
- Two stage Heat, one stage Cool, and Fan
- Pulse Width Modulation
- CSA C US Approved for use in USA and Canada
- Outdoor temperature display
- · Cool Group Master
- · Backlight
- Freeze Protection
- Equipment Exercising
- 2 auxiliary sensor inputs

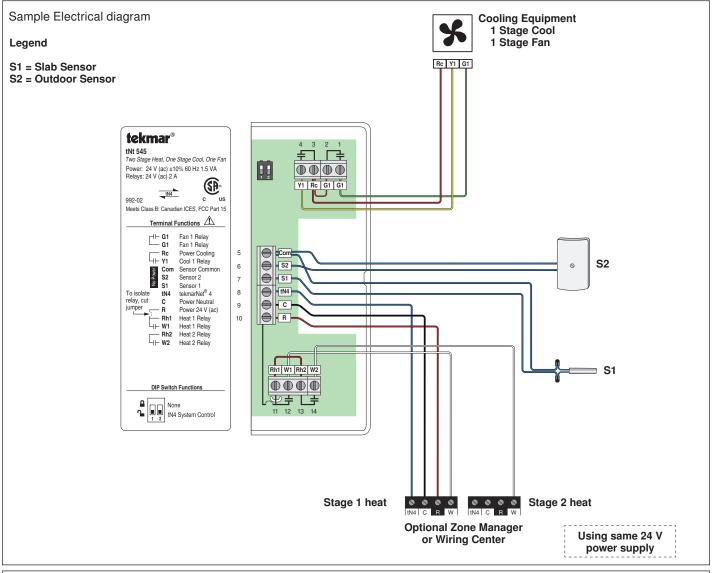
### SPECIAL REQUIREMENTS

This thermostat is designed to be used with a tekmarNet® 4 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.







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