tekmar[®] Submittal tekmarNet[®]4 Thermostat 546

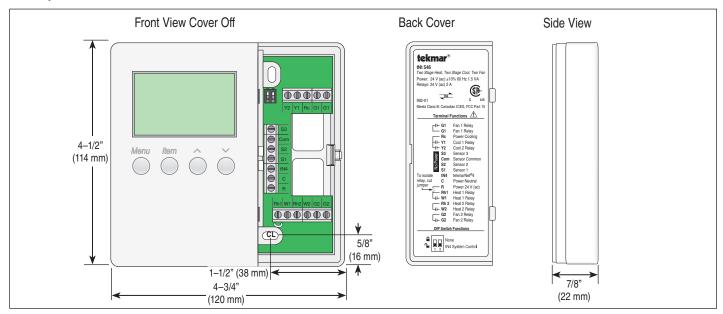
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Zoning	Replaces: New

Job

Designer

Contact _

The tekmarNet®4 thermostat 546 is designed to operate mechanical equipment to deliver 2 stages of heating and 2 stages of 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, 2 cooling devices, and 2 fans while reading up to three auxiliary sensors. These could be floor, outdoor, duct, or remote air sensors.



Specifications

tekmarNet®4 The	rmostat 546 Two Stage Heat, Two Stage Cool, Two Fan	 Zone Synchronization Zone Post Purge 	
Literature	D546, W546, J546, U546	Programmable Setback Schedule	
Control	Microprocessor control. This is not a safety (limit) control	• One touch overrides (with optional User	
Packaged weight	1.0 lb. (450g)	Switch) • Auto Heating Cycle	
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	Cooling Interlock	
Approvals	CSA C US, meets Class B: ICES & FCC Part 15	Additional Features	
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), RH \leq 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	 tekmarNet[®]4 communication compatible Requires 9 wires Two stage Heat, two stage Cool, and two 	
Power supply	24 V (ac) ± 10%, 60 Hz, 1.5 VA	stage Fan	
W1 & W2 relays	24 V (ac) 2 A	Pulse Width Modulation	
Y1 & Y2 relays	24 V (ac) 2 A	CSA C US Approved for use in USA and	
G1 & G2 relays	24 V (ac) 2 A	Canada	
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892	Outdoor Temperature Display	
-Included	None	Cool Group Control	
-Optional	tekmar type # 070, 071, 072, 073, 076, 077, 078, 079, 082, 083, 084	Backlight Freeze Protection Equipment Exercising	
Warranty	Limited 3 Year (See D546 for full warranty)	 Equipment Exercising 3 Auxiliary Sensor inputs 	

Energy Saving Features

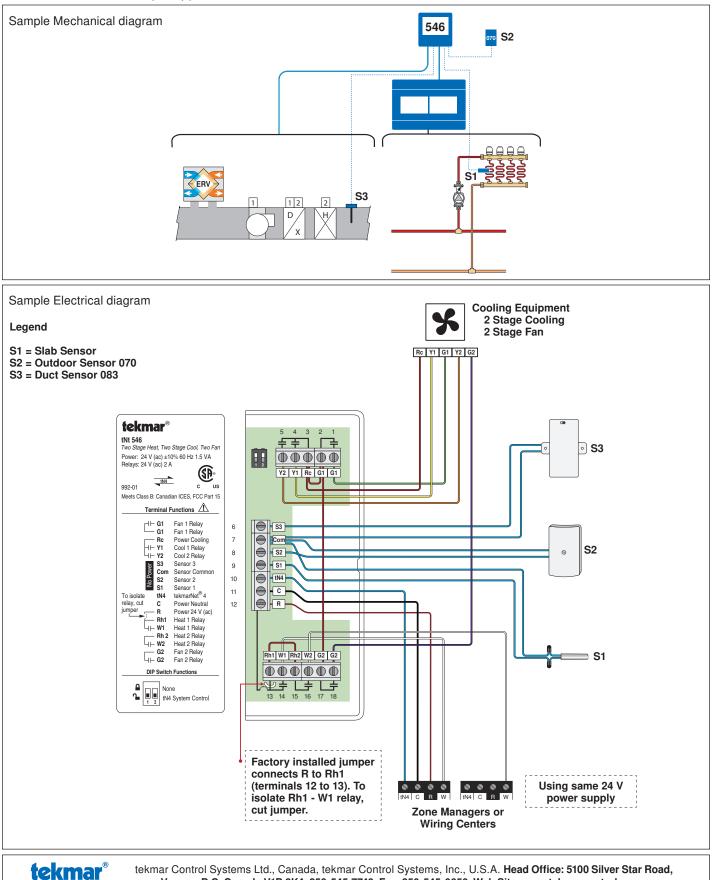
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SPECIAL REQUIREMENTS

This thermostat is designed to be used with a tekmarNet®4 Wiring Center or Zone Manager for power and communication. It can be used in stand alone applications also.

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.



Control Systems

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