tekmar[®] Submittal

Two Stage Setpoint Control 152



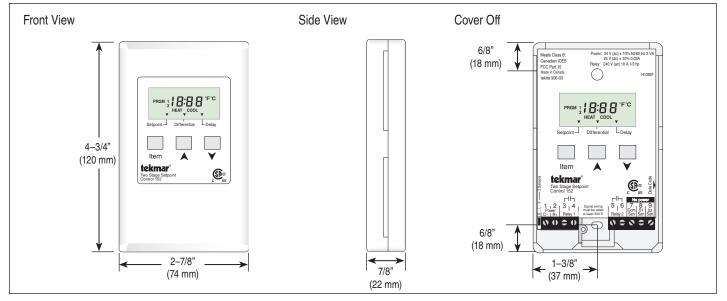


Setpoint

Replaces: New

lob	Designer	Contact
UU	Designer	Oontaot

The Two Stage Setpoint Control 152 is designed to operate heating or cooling equipment in order to maintain a set temperature. It can be used in applications ranging from heating a swimming pool with a 2 stage boiler to maintaining a hot water storage tank and a cold water storage tank at the same time. This product regulates a constant water temperature for either 2 stage heating or 1 stage heating and 1 stage cooling. It is capable of operating two relays to control either a single heat setpoint using one sensor, or a heat setpoint and cool setpoint using the 2 sensor inputs.



Specifications

Two Stage Setpoint Control 152		
Literature	152, A152, D001, D070	
Control	Microprocessor control. This is not a safety (limit) control	
Packaged weight	1.0 lb. (450 g)	
Dimensions	4-3/4" H x 2-7/8" W x 7/8" D (120 x 74 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, -20 to 120°F (-30 to 50°C), RH ≤90% Non- condensing	
Power supply	24 V (ac) ±10%, 50/60 Hz, 3 VA, 24 V (dc) ±10%, 0.03 A	
Relays	240 V (ac) 10 A, 1/3 hp	
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892	
-Included	Universal Sensor 071	
-Optional	tekmar type #: 070, 071, 072, 073, 076, 077, 078, 079, 082, 083, 084	
Programmed settings	Ten year memory backup	
Control accuracy	±0.5°F (±0.3°C) with up to 500 feet (150 m) of 18 AWG wire to sensors	
Temperature display	-85 to 302°F (-65 to 150°C)	
Setpoint 1 & 2	-40 to 239°F (-40 to 115°C)	
Differential 1 & 2	1 to 40°F (1 to 22°C)	
Differential 1 & 2	3 to 40°F (2 to 22°)	
Time delay 1 & 2	0 to 19 min. 50 sec	
Operating mode 1 & 2	Heating / Cooling	
Temperature display	Fahrenheit / Celsius	
Warranty	Limited 3 Year (See D152 for full warranty)	

SPECIAL REQUIREMENTS

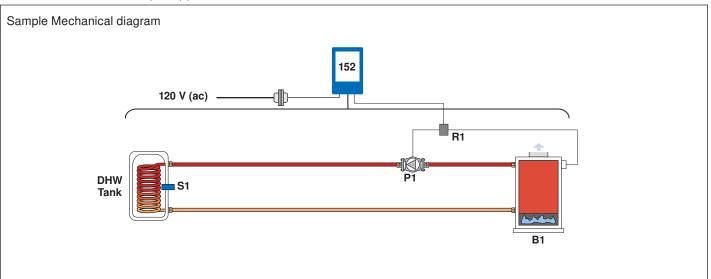
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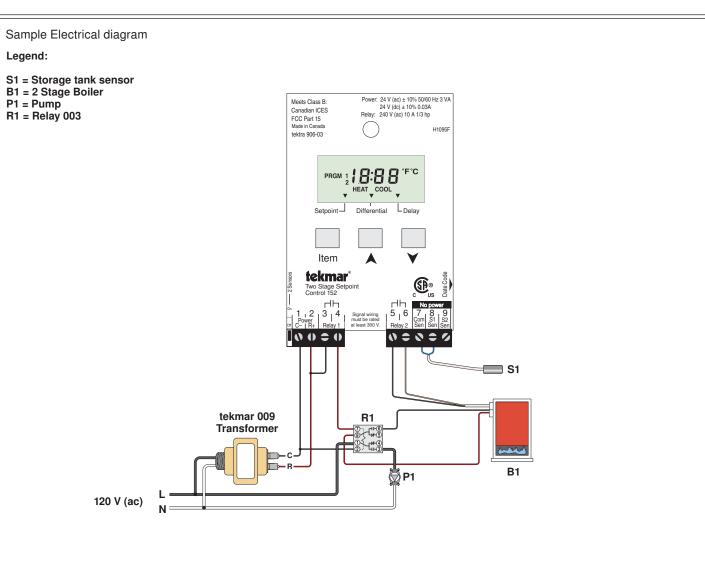
Features

- 2 Stage operation or heat & cool control
- Control of up to 2 different setpoints (with additional sensor)
- · Pulse Width Modulation
- Digital display
- 240V, 8A Relay

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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