

**T85320CC-001**

2 H / 2 C - Thermostat  
with Occupancy Sensor



commercial grade

SD card interface,  
makes **EASY** programming

## Performance PRO™ Multi-fan

Easy to install occupancy based temperature control,  
large display, simple user operation, for control of commercial:  
fan coil, conventional, water source, heat pump and PTAC



<b>Occupied Timer</b>	Sets Occupancy Duration for 30 min, 1, 2, 4, 5, 6, 16, 20, 24 Hours. Once the timer expires with no detection the thermostat goes into Setback Ramping.
<b>Setback Ramping</b>	Determines how the control will ramp to setback values. Economy - goes directly to setback values. Comfort 1 - sets back at 1°F per Hour until the selected setback value is reached. Comfort 2 - sets back at 2°F per Hour until the selected setback value is reached.
<b>Setback Setpoints</b>	Temperature values can be set to OFF or 50-90F (10-32C).
<b>Low/ High Temp Protection</b>	Freeze protection on this control is set at 40°F (heat). Over temp protection is set at 110°F (cool).
<b>Night Lock ON Protection</b>	To assure comfort settings for guest room operation an optional configuration will hold user setpoints from 10 PM and 8 AM, once occupancy is detected.

## High Performance Commercial Functions

- ▶ Programmable or non-programmable
- ▶ Battery or low-voltage (hard-wired)
- ▶ Remote sensor input
- ▶ Daily valve-purge option
- ▶ Programmable fan
- ▶ Programmable holidays
- ▶ **SD** memory card interface, 2 GB or smaller, enabling quick configuring of large-project installations
- ▶ Configurable operation of Heat (W1) for NC or NO

### Specifications

Temperature Control Range	50° to 90° F (10° to 32° C)
Operating Temperature Range	0° to 120° F (-18° to 49° C)
Storage Temperature Range	-20° to 130° F (-29° to 55° C)
Electrical Input Frequency	50/60 Hz +/- 10%
Input Power	24 VAC (20-30 VAC) and/or 2 AA alkaline batteries (installing batteries recommended)
Output Terminal W - Heating	20-30 VAC 0.02-1.0 A
Output Terminal Y - Cooling	20-30 VAC 0.02-1.0 A
Output Terminal G - Fan	20-30 VAC 0.02-0.6 A
Output Terminal A - Fan	20-30 VAC 0.02-1.0 A
Termination Connections	Wallplate w/ terminal blocks
Memory Card	SD (Secure Digital) - 2GB or less

Total load not to exceed 2.5 A

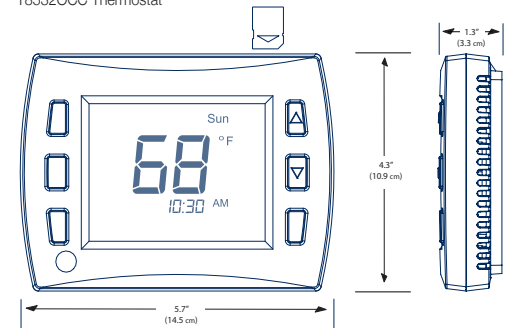
### Dimensions

Mounting	Direct mount; 2" x 4" horizontal or vertical, or 4" x 4"
Physical Dimensions	5.7"W x 4.3"H x 1.3"D

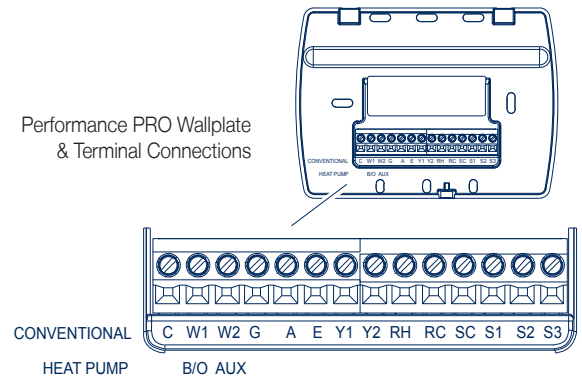
### Models & Accessories

Model	Part No.	Description
T85320CC-001	71966	Performance PRO, 2 Heat / 2 Cool, Multi-fan, programmable thermostat.
68671	68671	Remote sensor
69308	69308	Indoor remote sensor

T85320CC Thermostat



Performance PRO Wallplate & Terminal Connections



### Terminals

#### Fan Coil / Conventional

24 VAC ,Unswitched side — **C**

Stage 1 Heat — **W1**

Stage 2 Heat — **W2**

Fan High — **G**

Fan Medium — **A**

Fan Low — **E**

Stage 1 Cool — **Y1**

Stage 2 Cool — **Y2**

24 VAC Power for heating, switched side — **RH**

24 VAC Power for cooling, switched side — **RC**

Signal Common — **SC**

Indoor Remote Sensor — **S1**

Remote Occupancy Sensor — **S2**

Seasonal Changeover Switch  
OPEN = Cooling in Summer  
CLOSED = Heating in Winter — **S3**

#### Heat Pump

24 VAC ,Unswitched side

Reversing Valve

Auxiliary ( Stage 2 or 3 )

Fan High

Fan Medium

Fan Low

Compressor Stage 1

Compressor Stage 2

24 VAC Power for heating, switched side

24 VAC Power for cooling, switched side

Signal Common

Indoor remote sensor

Remote Occupancy Sensor

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RoHS Compliant

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**T 85320CC**



Fan Refrigeration PTAC / PTHP Fan Coil Heat Pump

**PECO**  
AN ASTRONICS COMPANY

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