SETBACK ON DEMAND - **Clever Comfort Series**

Fully Automatic Setback

The SD (Setback On Demand) Thermostat from Columbus Electric is fully automatic. Set your comfort temperatures and offset, and everything else is automatic.

No Programs

There are no programs to enter. The SD thermostat automatically learns when to return to comfort, and stays there as long as you are. Goes to economy setting after you leave.

Holidays

Your business closed for a holiday. When nobody shows up, the SD Thermostat automatically returns to economy. Up to 23 hours of savings that would normally be lost.

How does it work?

Every SD Thermostat incorporates a motion sensor to detect when people are present. When motion is detected the SD thermostat automatically switches to the comfort mode to ensure occupant's comfort. When nobody is there, it returns to the "economy setting".

Clever Comfort

The SD thermostat incorporates a learning mode that keeps track of when people are there, and uses that information to determine when to return to comfort setting before people arrive.

Simple Economy

A simple slide control is used to set an economy offset of between 0-12°. Offset applies to both heat and cool modes.

Auto-Changeover

Most Auto-Changeover thermostats require 3-5° of separation between Heat and Cool settings. Although this protects the equipment from short cycling, it doesn't always provide the best comfort. The SD thermostat incorporates a 2° deadband between the off of one mode and the on of the other. This allows you to set any temperatures you want for both heat and cool, and the most change you will have to endure is 2° for one cycle.

Works with Multiple Systems

The SD thermostat works with 27 types of Low Voltage HVAC systems. These include up to 4 stages of heat, 4 stages of cool, or any combination up to a total of 4 stages. The SD thermostat also works with Single and two stage heat pumps.

A complete list of systems is on the back.

Locking Keyboard

The Locking keyboard feature of the SD thermostat prevents changing of Comfort and Economy Temperature settings, as well as Mode, and Fan settings. It even prevents turning on or off motion sensor.

Protection Delays

The SD thermostat incorporates several protection delays to prevent short cycling of the equipment and ensure comfort.

These delays include a 5 minute compressor protection delay that prevents the thermostat from reactivating the compressor in less than 5 minutes.

There is a 2 minute delay in heat mode.

Minimum run time of 2 minutes is incorporated to prevent short cycling due to drafts.

Assembled in the USA

Columbus Electric

Division of TPI Corporation
Johnson City, Tennessee

T800-251-7828
F423-477-0084

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Additional Features

- Remote Temperature Sensor
- Remote Motion Sensor
- Locking Keypad
- Computed Recovery
- System Protection Delays
- F or C Temperature
- Battery or 24VAC Operation
- Low Battery Indicator

OEM Options

The SD Thermostat can be customized specifically for your equipment.

Options include:

- Temperature Ranges
- Default Temperatures
- Differentials
- System Selections
- Protection Delays
- Logo in Display
- Wired or Wireless
- Comfort Times
- Factory Defaults

Patent Pending

Specifications:

Power: 3AA Batteries (included)
Battery Life: 2 yrs typical
Load: 1 Amp per Output
Voltage: 20-30VAC
Comfort Range: 50°-90°F
Economy Heat: 38°-90° F
Economy Cool: 50°-102° F
Protection Delay: 2 and 5 min
Min On Time: 2 minutes
Deadband: 2° F
Differential: 0.6° F
Locking Keypad: Yes
Motion Sensor Range: 6'-10'
Recovery Rate: 10 min/degree

Works with your system

The SD thermostat is designed to work with numerous 24VAC low voltage systems. At the time of installation, the installer will select one of the following systems from the setup menu.

The gas or electric heat option determines whether the system fan is controlled by the thermostat or the system.

There are two heat pump options that select whether the reversing valve is activated in the heat mode or the cool mode.

Model #	Stages Heat	Stages Cool	Fan	Gas Heat	Electric Heat	O Terminal	B Terminal
110	1	0		YES			
111	1	1	YES	YES			
112	1	2	YES	YES			
113	1	3	YES	YES			
120	2	0		YES			
121	2	1	YES	YES			
122	2	2	YES	YES			
130	3	0		YES			
131	3	1	YES	YES			
140	4	0		YES			
201	0	1	YES				
202	0	2	YES				
203	0	3	YES				
204	0	4	YES				
210	1	0	YES		YES		
211	1	1	YES		YES		
212	1	2	YES		YES		
213	1	3	YES		YES		
220	2	0	YES		YES		
221	2	1	YES		YES		
222	2	2	YES		YES		
230	3	0	YES		YES		
231	3	1	YES		YES		
240	4	0	YES		YES		
311	1	1	YES		YES	YES	YES
421	2	1	YES		YES		YES
521	2	1	YES		YES	YES	

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