• The SD Series of Clever Comfort Thermostats are self learning setback thermostats designed specifically for commercial and industrial applications. Unlike most setback thermostats, this thermostat doesn't require programming. With the use of a motion sensor, it learns your schedule, and changes automatically with schedule changes. Regardless of your schedule, it automatically returns to economy after you leave.

• The Clever Comfort Smart Recovery feature returns the system to the comfort temperature before you arrive. The holiday feature automatically returns to economy setting on any day that no-one shows up.

• Compatible with single and multistage equipment up to 4 stages of Heat, 4 Stages of Cool, or any combination of Heat and Cool up to 4 stages, including 2 Stage Heat, and 1 Stage Cool Heat pumps.

# SD SERIES
## CLEVER COMFORT SYSTEM
## FOR COMMERCIAL APPLICATION

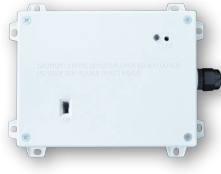• **FULLY AUTOMATIC SETBACK**
• **NO PROGRAMMING**

# Standard Models:

## SDRFK5002 - KIT:

SDRF1001
Wireless Thermostat

RFR5002
Wireless Relay

The SDRFK5002 includes both the SDRF Thermostat and the compatible RFR5002 Relay in a pre-linked kit. The RFR5002 Relay is connected to the HVAC system. The SDRF Thermostat can be located in a convenient location without having to run additional wires.

## RFR5002:
Wireless Relay

The RFR5002 is the low voltage wireless RF Relay to be used with the SDRF Thermostat.

## SDRMT001:
Wired Remote Sensor

The SDRMT001 incorporates both the motion and temperature sensors for the SD and RSD Series of thermostats. The sensors can be remoted up to 25' using 5 conductor shielded wire. Either of the sensors may be used individually without connecting the other.

# Customization Options:

- **System Selection:** The standard SD Thermostat incorporates the ability to select between 26 types of HVAC equipment upon setup. With the customization option, you select as many or as few of these systems you want available to the installer.

- **Default System Selection:** Choose which model will be the default model upon installation. The Standard SD Thermostat has a default model of #111 which is Single Stage Heat/Cool for Gas heat.

- **Temperature Ranges:** The Heat and Cool temperature ranges are completely independent and can be customized to any ranges between 0-200°F. For example, our E2 Extended Energy model incorporates a Heat Range of 50-74°F, and a Cool Range of 72-90°F. The heat can never be set above 74, and the cooling can never be set below 72. (Note: A setting above 120°F requires a remote temperature sensor in controlled area.)

- **Economy Offset Range:** The standard model is adjustable from 0-12°F degrees offset. Both the minimum and maximum settings are adjustable from 0-40°F. For example, our E2 Extended Energy Saving model has a minimum offset of 5°F and a maximum of 15°F.

- **Default Temperature Scale:** Default can be Celsius or Fahrenheit. Regardless of default temperature scale, it can be changed at any time by the user.

- **Set Temperature Resolution:** Select either 0.5 or 1.0 degrees. Standard Model allows for setpoint adjustment in 0.5 increments.

- **Differential:** On and Off setpoints for each stage in relationship to setpoint. All settings are selectable in 0.1 degree resolution.

- **Default Temperature Settings:** Standard model settings are 70 degrees for Heat and 74 for Cool.

- **Deadband Range:** Selectable between 1 and 10 degrees. Select both the minimum and maximum amount that the user will be able to select. Standard model is adjustable between 1-5°F.

- **Default Deadband Setting:** When first installed, this is the deadband setting. The standard model has a default of 2 degrees. Note: Default must be within the deadband range selected above. If the range is 4-8 you can't have a default of 2.

- **Comfort Duration Times:** The comfort duration time is how long the thermostat will remain in comfort after motion has been detected. The factory times are: 10, 30, 60, 90, and 120 minutes. Up to 8 settings are available from 10 to 240 minutes (4 hours).

- **Comfort Duration Default Time:** One of the settings selected above has to be the default. Standard model default is 60 minutes.

- **Maximum Manual Economy Time:** This is the amount of time the thermostat will ignore all motion once the thermostat is manually placed into the economy mode. This gives everyone time to leave the building (area) once manually placed into economy. Standard model has a time of 30 minutes.

- **Protection Delays:** All of the protection delays are adjustable to the second. We currently have a 5 minute compressor protection delay, a 2 minute heat protection delay, and a 2 minute minimum run time. All three are adjustable independently.

- **Columbus Electric Displayed:** We can turn off Columbus Electric on the LCD display.