PROGRAMMABLE COMMUNICATING THERMOSTAT
CAT. NOS. RC-1000, RC-1500, RC-2000

LEVITON®

PK-93329-10-A0-0C
(65A17-1)

USER GUIDE

ENGLISH

About your Thermostat

Thank you for purchasing your new Omnistat2 electronic communicating thermostat. Your thermostat will provide you with comfort, convenience, and energy savings for years to come.

The Omnistat2 is a precision digital thermostat. It has the capability of being controlled both locally and remotely. It offers stand alone operation, programmability, and communications with automation systems, utility control systems, and personal computers.
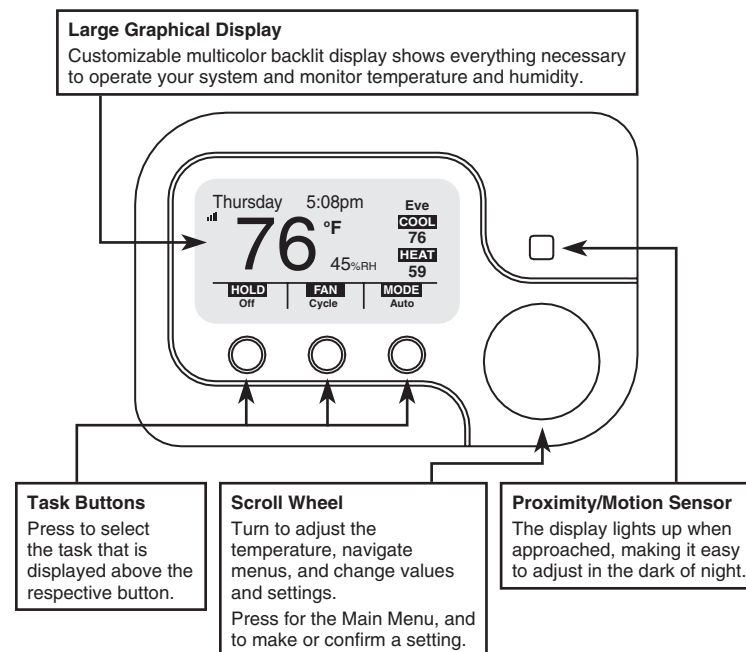
Please take a few moments to become familiar with all of the features of your new thermostat by reviewing this guide.

Features:
• Digitally precise temperature control
• 7 day programmable
• Multicolor backlight, user defined color
• Proximity/motion detector, screen lights up when approached**
• Vacation mode
• Easy to navigate menus
• Communicates with automation systems, utility control systems, and personal computers
• Displays outdoor temperature
• Graphical display of HVAC usage, by week
• Filter reminder
• Large graphical display
• Learns the patterns of your house and uses smart control to apply maximum comfort with efficiency
• Automatic heat/cool changeover
• Fan cycle mode
• Humidity sensing*
• Humidifier control*
• Dehumidifier control*
* Only available on the RC-2000
** Not available on the RC-1500

Getting to know your Thermostat's Controls

To take advantage of all the benefits and features offered by your new thermostat, we recommend that you start by becoming familiar with its controls.

Large Graphical Display
Customizable multicolor backlit display shows everything necessary to operate your system and monitor temperature and humidity.

Task Buttons
Press to select the task that is displayed above the respective button.

Scroll Wheel
Turn to adjust the temperature, navigate menus, and change values and settings. Press for the Main Menu, and to make or confirm a setting.

Proximity/Motion Sensor
The display lights up when approached, making it easy to adjust in the dark of night.

The following icons are used throughout this guide:

(scroll wheel)	Turn the Scroll Wheel to the right or to the left.
(press wheel)	Press the Scroll Wheel.
(●○○)	Press the Task Button on the left.
(○●○)	Press the Task Button in the middle.
(○○●)	Press the Task Button on the right.

Adjusting the contrast of the thermostat display:

To adjust the contrast of the thermostat display press and hold [FAN] while turning the Scroll Wheel:

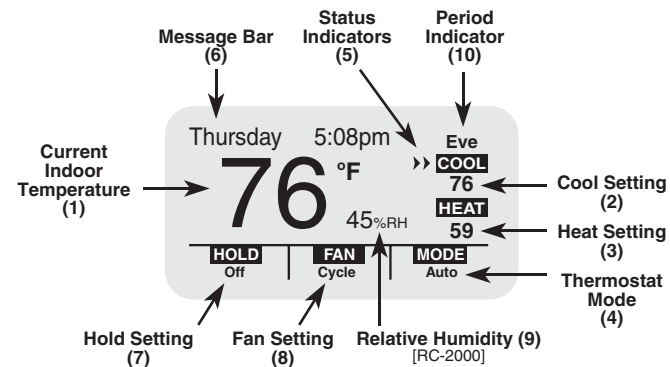|	
(○●○)	Press and hold [FAN].
(wheel)	While pressing [FAN], turn the Scroll Wheel to adjust the contrast.
(○○○)	When complete, release [FAN].

Adjusting the color of the thermostat display:

To adjust the contrast of the thermostat display press and hold [HOLD] while turning the Scroll Wheel:

(●○○)	Press and hold [HOLD].
(wheel)	While pressing [HOLD], turn the Scroll Wheel to adjust the color.
(○○○)	When complete, release [HOLD].

Getting to know your Thermostat's Display (Advanced Display)

The following graphics will be displayed on the Home Screen when using the Advanced Display:

Filter Reminder

Your thermostat logs the amount of time your heating and cooling system has been running and gives you a reminder when it's time to replace your filter. "Change Filter" will be displayed on the Message Bar when it is time to change your filter.
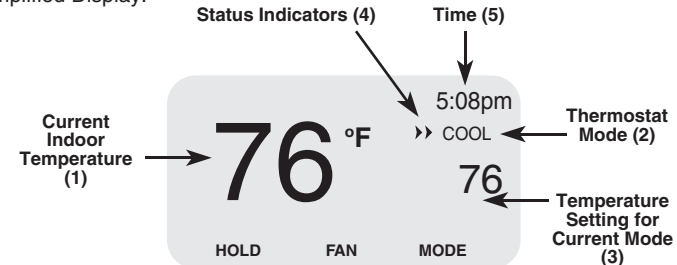
(press wheel) (press wheel)	Press the Scroll Wheel twice to clear the change filter reminder. Don't forget to change your filter!

1. **Temperature:** Displays the current indoor temperature.
2. **Cool Setting:** Displays the desired cool setting.
3. **Heat Setting:** Displays the desired heat setting.
4. **System Mode:** Displays the current system mode: Off, Heat, Cool, Auto, or EM Heat (Emergency Heat for heat pumps).
5. **Status Indicators:**
   ▶**Cool** 1st stage of air conditioning system is running
   ▶**Heat** 1st stage of heating system is running
   ▶ ▶**Cool** 1st and 2nd stage of air conditioning system is running
   ▶ ▶**Heat** 1st and 2nd stage of heating system is running
   Note: The Status Indicators may flash to indicate a start up delay for equipment protection. After a few minutes, the compressor will start and the Status Indicators will stop flashing.
6. **Message Bar:** The message bar displays messages that you enable. If more than one message type is enabled, the message bar will display the first message for 4 seconds, and then the next message is displayed. On the advanced display, the available message types are as follows:
   • Date and Time
   • Outdoor Status (outdoor temperature and/or outdoor humidity)
   • Energy Status
   • Energy Messages
   • Filter Reminder (time to change the filter)
7. **Hold Setting:** Displays the current hold setting: **Off, On,** or **Vacation**
8. **Fan Setting:** Displays the current fan mode: **Auto, On,** or **Cycle**
9. **Relative Humidity:** Displays the current relative humidity (RC-2000 only).
10. **Period Indicator: Morn, Day, Eve,** or **Night** is displayed when temperature changes are made by thermostat schedule.

Getting to know your Thermostat's Display (Simplified Display)

The following graphics will be displayed on the Home Screen when using the Simplified Display:

1. **Temperature:** Displays the current indoor temperature.
2. **System Mode:** Displays the current mode: **Heat** or **Cool**. If the thermostat is in Off mode, this area is blank.
3. **Temperature Setting:** Displays the desired temperature setting for the current system mode (the mode that is displayed directly above this setting). If the thermostat is in **Off** mode, this area is blank.
4. **Status Indicators:**
   ▶**Cool** 1st stage of air conditioning system is running
   ▶**Heat** 1st stage of heating system is running
   ▶ ▶**Cool** 1st and 2nd stage of air conditioning system is running
   ▶ ▶**Heat** 1st and 2nd stage of heating system is running
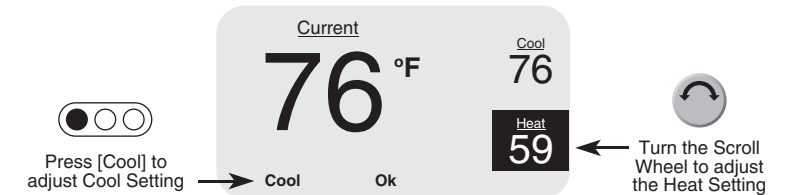5. **Time:** The current time of day is displayed.

Changing the desired temperature settings

To change the desired temperature setting, simply turn the Scroll Wheel. With the first turn of the Scroll Wheel, the Temperature Settings Screen is displayed:

On the Temperature Settings Page, you will initially be adjusting the temperature setting for the current thermostat mode.
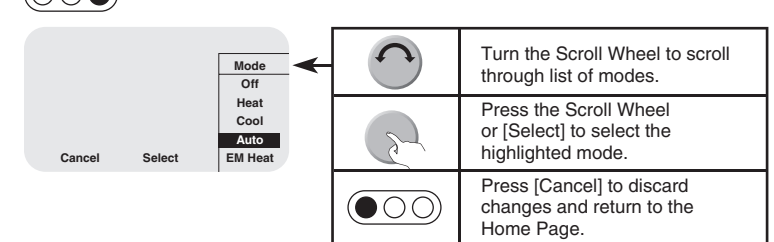

Press [Heat] to adjust Heat Setting

Turn the Scroll Wheel to adjust the Cool Setting

(wheel)	Turn the Scroll Wheel to adjust the temperature setting for the current mode.
(●○○)	To adjust the temperature setting for the opposite mode, press [Heat] or [Cool].
(press wheel)	Press the Scroll Wheel or [Ok] when complete

Press [Cool] to adjust Cool Setting

Turn the Scroll Wheel to adjust the Heat Setting

Changing the desired system mode

MODE To change the system mode, press [MODE]. When first pressed, (○○●) the Mode Setting Screen is displayed:

(wheel)	Turn the Scroll Wheel to scroll through list of modes.
(press wheel)	Press the Scroll Wheel or [Select] to select the highlighted mode.
(●○○)	Press [Cancel] to discard changes and return to the Home Page.

• In Off mode, the heating and air conditioning systems are both off and do not respond to changes in the temperature settings.
• In Heat mode, the heating system responds to maintain your desired heating temperature setting.
• In Cool mode, the air conditioning system responds to maintain your desired cooling temperature setting.
• In Auto mode, your thermostat will automatically switch between heat and cool to maintain your desired heating and cooling temperature settings.
• In Emergency Heat mode (for heat pumps with auxiliary heat) the thermostat will turn off the heat pump and use the auxiliary heating to maintain the heating temperature setting. This mode should only be used if the heat pump is malfunctioning, because the auxiliary heat costs more to operate than the heat pump.

About the Hold and Fan Settings

FAN To change the fan setting, press [FAN]. When first pressed, the (○●○) Fan Setting Screen is displayed:

(wheel)	Turn the Scroll Wheel to scroll through the list of fan settings.
(press wheel)	Press the Scroll Wheel or [Select] to select the highlighted setting.
(●○○)	Press [Cancel] to discard changes and return to the Home Page.

• In Fan Auto mode, the fan runs only when the system calls for heating or cooling.
• In Fan On mode, the fan runs continuously.
• In Fan Cycle mode, the fan is cycled on and off every 10 minutes to circulate the air.

WEB VERSION

To change the hold setting, press [HOLD]. When first pressed, the Hold Setting Screen is displayed:

HOLD
○●○

```
┌─────────────────┐
│   ↓             │
│  Hold           │
│  Off            │
│  On             │
│  Vacation  Cancel  Select │
└─────────────────┘
```

	Turn the Scroll Wheel to scroll through the list of hold settings.
	Press the Scroll Wheel or [Select] to select the highlighted setting.
○●○	Press [Cancel] to discard changes and return to the Home Page.

About the Hold Settings

In Hold mode, the thermostat will not change the desired temperature settings by program schedule or remote system.

- In Hold Off mode, the thermostat responds to program schedule and remote system temperature setting changes.
- In Hold On mode, the thermostat ignores program schedule and remote system temperature setting changes.
- In Hold Vacation mode, the thermostat ignores program schedule and remote system temperature setting changes for the duration of your scheduled time away.

When Hold Vacation is selected, you are prompted for heat and cool settings and the number of days that it will hold those settings.

```
┌─────────────────────┐
│  VACATION HOLD TIME  │
│  Hold Cool Setting :  82 │
│  And Heat Setting :   63 │
│      For :       4.5 Days │
│  Cancel    Ok    Next │
└─────────────────────┘
```

	Turn the Scroll Wheel to adjust the desired Cool Settings that the thermostat will maintain while you are on vacation.
	Press the Scroll Wheel or [Next] to highlight the heat setting.
	Turn the Scroll Wheel to adjust the desired Heat Settings that the thermostat will maintain while you are on vacation.
	Press the Scroll Wheel or [Next] to highlight the days setting.
	Turn the Scroll Wheel to select the number of days (in half day increments) that the desired temperature settings will remain before Hold is turned off and the thermostat returns to normal operation
○○●○	When temperature settings and number of days have been set, press [Ok] to active the Hold settings.
●○○○	Press [Cancel] to discard changes and return to the Home Page.

Setting the Time and Date

To set or change the current time and date, press and hold [MODE] for 5 seconds:

```
┌──────────────┐
│     TIME      │
│  01:22pm      │
│     DATE      │
│  03-14-08     │
│ Cancel  Ok  Next │
└──────────────┘
```

1. Set the current hour
2. Set the current minutes
3. Set AM or PM
4. Set the month
5. Set the day
6. Set the year

	Turn the Scroll Wheel to adjust each item for the time and date.
	After each item is set, press the Scroll Wheel or [Next] to adjust the next item.
○○●○	After the time and date has been set, press [Ok] to save it to memory.
●○○	Press [Cancel] to discard changes.

Modifying the Program Schedule

Your new thermostat has been preprogrammed with energy saving settings. You may modify the times and temperature settings to maximize energy savings and comfort based on your lifestyle.

Your thermostat may be programmed to adjust the heating and cooling temperature settings up to 4 times per day, with different times and temperature settings for every day of the week (Monday – Sunday). You may also modify the schedule for a day, and then copy that schedule to other days. This is especially beneficial if you have the same schedule on weekdays. You can modify a single day's schedule and then copy it to the remaining weekdays.

MAIN MENU   To modify the existing program schedule, press the Scroll Wheel once to display the Main Menu.

```
┌──────────────────┐
│    MAIN MENU      │
│  Program     ◄──  │
│  Humidity         │
│  Setup            │
│      Back   Select │
└──────────────────┘
```

	Select Program by pressing the Scroll Wheel to view or change the time schedule for each day of the week.

```
┌──────────────────┐
│    PROGRAM        │
│  Monday      ◄──  │
│  Tuesday          │
│  Wednesday        │
│      Back   Select │
└──────────────────┘
```

	Turn the Scroll Wheel to highlight the day of week
	Press the Scroll Wheel or [Select] to view the time schedule for the highlighted day.

```
┌────────────────────────────┐
│           Monday            │
│          TIME   HEAT  COOL  │
│  Morning  6:00AM  70   78    │
│  Day      8:00AM  62   85    │
│  Evening  6:00PM  70   78    │
│  Night   10:00PM  62   82    │
│  Cancel      Ok      Copy    │
└────────────────────────────┘
```

- The time is increased and decreased in 15 minute increments.
- To disable a period, set it and the next period to the same time.

	Turn the Scroll Wheel to adjust the time for the selected period on the respective day. This is the time in which the selected period starts and the previous period ends.

The 4 time periods for each day of the week are as follows:

MORNING	This is the time in which you typically awaken in the morning, along the desired temperature settings that will remain until you leave your home for the day.
DAY	This is the time in which you leave your home for the day, along with the desired temperature settings that will remain until you return home in the evening.
EVENING	This is the time in which you return home in the evening, along with the desired temperature settings that will remain until you go to bed at night.
NIGHT	This is the time in which you go to bed at night, along with the desired temperature settings that will remain until you awake the next morning.

	When the desired time is displayed for the selected period, press the Scroll Wheel to highlight the Heat temperature setting for the selected period on the respective day.

Modifying the Program Schedule

```
┌────────────────────────────┐
│           Monday            │
│          TIME   HEAT  COOL  │
│  Morning  6:00AM  70   78    │
│  Day      8:00AM  62   85    │
│  Evening  6:00PM  70   78    │
│  Night   10:00PM  62   82    │
│  Cancel      Ok      Copy    │
└────────────────────────────┘
```

	Turn the Scroll Wheel to adjust the desired Cool Settings that the thermostat will maintain for the selected period on the respective day.
	When the desired Cool Setting is displayed for the selected period, press the Scroll Wheel to highlight the time for the next period on the respective day.

Make any desired modifications for the selected period.

```
┌────────────────────────────┐
│           Monday            │
│          TIME   HEAT  COOL  │
│  Morning  6:00AM  70   78    │
│  Day      8:00AM  62   85    │
│  Evening  6:00PM  70   78    │
│  Night   10:00PM  62   82    │
│  Cancel      Ok      Copy    │
└────────────────────────────┘
```

Notes:
- At any time, you can undo changes made to the current schedule on the respective day by pressing [Cancel].
  - Select a day from the list of days and modify the program schedule for that day, OR
  - Press [Back] twice, to return to the Home Screen
- When all of the modifications are complete, you can save the schedule for the respective day by pressing [Ok].
  - Select a different day from the list of days and modify the program schedule for that day, OR
  - Press [Back] twice, to return to the Home Screen
- When all of the modifications are complete, you can save and copy the schedule for the respective day to any of the other days in a week by pressing [Copy].

Copying a Time Schedule to other Days

You may copy the program schedule from any given day, and copy it to any other day(s) in a week. After the schedule for the respective day has been completed, press [Copy].

```
┌──────────────────┐
│   COPY TO DAYS:   │
│  X Monday         │
│  □ Tuesday        │
│  □ Wednesday      │
│  Cancel     Ok    │
└──────────────────┘
```

	Turn the Scroll Wheel to highlight the desired day(s).
	Press the Scroll Wheel to check the box next to the day(s) in which the current schedule will be used.
○○●○	When the desired days have been selected, press [Ok] to save the schedule for each of the checked days.
●○○	Press [Cancel] to discard changes.

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	Turn the Scroll Wheel to adjust the desired Heat Settings that the thermostat will maintain for the selected period on the respective day.
	When the desired Heat Setting is displayed for the selected period, press the Scroll Wheel to highlight the Cool temperature setting.
	Turn the Scroll Wheel to adjust the desired Cool Settings.

```
┌────────────────────────────┐
│           Monday            │
│          TIME   HEAT  COOL  │
│  Morning  6:00AM  70   78    │
│  Day      8:00AM  62   85    │
│  Evening  6:00PM  70   78    │
│  Night   10:00PM  62   82    │
│  Cancel      Ok      Copy    │
└────────────────────────────┘
```

○○●○	When the schedule for each period of the respective day is complete, press [Ok] to save the changes.
○○●○	When the schedule for each period of the respective day is complete, press [Copy] to save the changes and copy the schedule to other days in the week.
●○○○	Press [Cancel] to discard changes.

Changing the desired humidity setting (RC-2000)

MAIN MENU   To change the desired humidity settings, press the Scroll Wheel once to display the Main Menu.

```
┌──────────────────┐
│    MAIN MENU      │
│  Program          │
│  Humidity         │
│  Setup            │
│      Back   Select │
└──────────────────┘
```

	Turn the Scroll Wheel to highlight Humidity.
	Press the Scroll Wheel or [Select] to view the humidity settings.

```
┌──────────────────────┐
│   HUMIDITY TARGETS    │
│  Humidity Setpoint:  25 %RH │
│  Dehumidity Setpoint: 55 %RH │
│  Cancel    Ok    Next │
└──────────────────────┘
```

	Turn the Scroll Wheel to adjust the desired humidity and dehumidify setting.
	Press the Scroll Wheel or [Next] to switch between the humidity and dehumidify setpoints.
○○●○	When humidity settings have been set, press [Ok] and then [Back] to return to the Home Page.
●○○○	Press [Cancel] two times, to discard changes and return to the Home Page.

Display the Runtime Graph of Air Conditioning and Heating Usage

MAIN MENU   To view a System Runtime graph of air conditioning and heating usage over the past 4 weeks, press the Scroll Wheel once to display the Main Menu.

```
┌──────────────────┐
│    MAIN MENU      │
│  Humidity         │
│  Setup            │
│  Runtime Graph    │
│      Back   Select │
└──────────────────┘
```

	Turn the Scroll Wheel to highlight Runtime Graph.
	Press the Scroll Wheel or [Select] to view the runtime graph of air conditioning and heating usage over the past 4 weeks.

```
┌──────────────────┐
│   SYSTEM RUNTIME  │
│       43          │
│ Hours  35  26     │
│            22     │
│ Weeks  3  2  1  0 │
└──────────────────┘
```

	Press the Scroll Wheel to return to the Main Menu.
○○●○	Press [Back] to return to the Home Page.

System Runtime Bar Graph 0-3: This area displays the bar values and hours that the air conditioning and/or heating system operated in the current week (Week 0) and in the three previous weeks (Weeks 1-3).

Cat. Nos. – RC-1000BLSHP; RC-1000BLZB; RC-1000SLZB; RC-1000WHSHP; RC-1000WHZB; RC-1500WHSHP; RC-1500WHSN; RC-1500WHZB; RC-2000BLZB; RC-2000SLZB; RC-2000WHSHP; RC-2000WHZB

As per SIPCO LLC, this product may be used in a system and employs certain elements from one or more of the following U.S. Patents: IP CO, LLC: 7,069,125; 7,054,271; 6,249,516; 6,044,062. SIPCO LLC: 7,103,511; 6,914,893; 6,891,838; 5,714,931; 6,233,327; 7,397,907; 6,618,578; 7,079,810; 7,295,128; 7,263,073; 7,480,501; 6,437,692; 7,468,661; 7,053,767; 7,650,425; 7,739,378

FCC Compliance
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cat. Nos. – RC-1000BL; RC-1000SL; RC-1000WH; RC-2000BL; RC-2000SL; RC-2000WH

These products are covered by U.S. Pat. No. 8,091,795.

FCC Compliance
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

PK-93329-10-A0-0C

WEB VERSION