Complete, Easy To Read

## LUXPRO PSDO10BFc

BATTERY POWERED, NON-PROGRAMMABLE DIGITAL HEAT ONLY THERMOSTAT (WITH FAN)

LUX PRODUCTS CORPORATION
Mt. Laurel, New Jersey 08054, USA
WARNING: Use Energizer® or DURACEL® Alkaline Batteries Only. Energizer ${ }^{\circ}$ is a registered trademark of Eveready Battery Company, Inc.
DURACELL* is a registered trademark of The Gillette Company, Inc.


Thank you for your confidence in our product. You should become fully acquainted with this thermostat before installing it for usage.
Follow the installation procedures carefully, and one step at a time This will save you time and minimize the chance of damaging either the thermostat or the systems that it controls. These instructions may contain information beyond that required for your particular

## COMPATIBILITY

- The single-stage PSD011BFc thermostat can be used with: most 24 volt, single stage heating systems, with or without a blower fan. This thermostat cannot be used to control: cooling systems, heat
pumps, 3 -wire zone valves, or $120 / 240$ volt (line voltage) systems. pumps, 3 -wire zone valves, or 120/240 volt (line voltage) systems
Ask your dealer for other LUXPRO thermostats to control those Ask your
systems.


Digital, Non-Programmable Gas / Electric Blower Fan Option - Set Temperature Range $40^{\circ} \mathrm{F}$ to

Clean, Attractive Design
Easy To Install
F / C Selectable Fi C Selectable Temperature Display
Fixed 5 Minute Minimum Run / Off Time For
Equipment Protection Large, Easy To Read Display - Adjustable Temperature Stop
with LED Backlight

## INSTALLATION

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING INSTALLATION

## CAUTION

This thermostat is protected against normal static electric
discharges. However, in extremely dry weather you should
discharges. However, in extremely dry weather you should
touch a grounded metal object before touching the thermostat

## TOOLS REQUIRED

- 1 Phillips screwdriver (small - medium)
- Wire stripper/cutter

|  | Turn off electricity to the appliance before stalling or servicing the thermostat or any part the system. Do not turn the electricity back on |
| :---: | :---: |
| - Your thermostat is a precision instrument. <br> Please handle it with care. <br> - Do not short (jumper) across the electric terminals for the furnace to test the system. This may damage the thermostat and void your warranty. <br> - All wiring must conform to all applicable local codes and ordinances. <br> - This thermostat should be limited to a maximum of 1.5 amps ; higher current may cause damage to the thermostat. |  |
|  |  |
|  |  |
|  |  |

## THERMOSTAT LOCATION

On replacement installations, mount the new thermostat in place of the old one unless the conditions listed below sugg
installations, follow the guidelines listed below.

Locate the thermostat on an inside wall, at about 5 ft . ( 1.5 m ) above the floor, and in a room that is used often.
as: direct sunlight, near a lamp, television, radiator, register
fireplace, on a wall opposite a stove, or that carries hot water pipes Do not locate in unusual cooling conditions, such as: on a wall separating an unheated room, or in a draft from a stairwell, door, or window
alcove locate where air circulation is poor, such as: in a corner or
alcove, or behind an open door. shorten thermostat life.
. Do not install the unit until all construction work and painting has
REMOVING THE OLD THERMOSTAT
. Switch OFF the electricity to both the furnace and air conditioner
then proceed with the following:
simply pull off, some have screws on the sides, and than types and simply pull off
loosened first.

Take note of the letters printed near the wire terminals. Attach labels (enc
not color.
Make sure the wires do not fall back inside the wall. Remove and label one wire at a time, and do not allow the wires to touch each other or any parts of the thermostat

## from the wall.

## CAUTION: Be careful not to drop the body or disturb any of the electronic parts.

## mOUNTING THE NEW THERMOSTAT:

1. Strip insulation leaving $3 / 8 \mathrm{in}$. $(9.5 \mathrm{~mm})$ of bare wire on the ends Fill clean off any corrosion present.
drafts from affecting the thermostat while in use
Pull your new thermostat apart by applying pressure to the thumb tab on the bottom edge of the unit. While pressure is being applied to this release latch, pull the two halves of the thermostat apart near the bottom edge.
NOTE: If you are mounting the base to a soft material like plasterboard, or if you are using the old mounting holes, the screation hold. Drill a $3 / 16$-in $(4.8 \mathrm{~mm})$ hole at each screw base as described below.
. Hold the base against the wall. Route the wires through the larger hole adjacent to the terminal block. Position the base for best appearance (to hide any marks from an old thermostat). Attach the

## CONNECTING THE WIRES

Clean bare wire ends must be inserted between the black clamp plate and the brass terminal as shown here Securely tighten all electrical terminal screws (even unused ones).

## WIRING INFORMATION

** Complete heating or cooling system wiring can be found in the WIRE IDENTIFICATION AND WIRING SCHEMATICS section of this brand new installations or for un-referenced wires.

## SETUP OPTIONS

If batteries are presently installed, remove them from the thermostat before proceeding with changing any of the options listed below.

A table similar to this one shown below is printed on the thermostat's circuit board. There may be minor differences present in some of the wording of
the same.


## JUMPER SETTINGS:

There are four (4) headers (or jumpers) located inside the thermostat at the rear of the circuit board. These settings can be changed from their default values by removing its corresponding black jumper cap and reinstalling the cap so that it is positioned on the adjacent pair of recognized unless the thermostat has been without battery power for at least 2 minutes, and then power is restored again. Each of these jumpers changes a different setup option. The choices for these printed adjacent to each individual setting jumper.

JP1 - FURNACE / HEAT PUMP SYSTEM TYPE:
This setting is not used on this PSD010BFc model.
JP2 - FAHRENHEIT OR CELSIUS DISPLAY FORMAT: This setting controls whether the temperature is
in degrees ${ }^{\circ} \mathrm{F}$ or ${ }^{\circ} \mathrm{C}$ on the LCD display screen.

## JP3 - HEAT FAN CONTROL

This setting defines the fan operation while in Heat mode, and when the fan is in Auto.
GAS: Use this setting if you have a Gas or Oil heating system. In the GAS setting, the heating system itself controls the operation of the blower fan (if equipped).
ELECTRIC: Use this setting if ELECTRIC: Use this setting if you have a Heat Pum Electric heating system. In the ELEC setting, the operation of the blower fan.

JP4 - [B] OR [0] TERMINAL USAGE OPTION:
This setting is not used on this PSD010BFc m

## COMPLETING THE INSTALLATION

Once all optional jumper settings have been performed as described in the previous section, please ensure that the thermostat has been without battery power for at least 2 minutes. Now install new batteries into the thermostat. When installing batteries, use two new
Energizer ${ }^{\oplus}$ or DURACELL® "AA" size alkaline batteries only. Ensure that Energizer ${ }^{\otimes}$ or DURACELL® "AA" size alkaline batteries only. Ensure that
the batteries are installed in the proper direction as per the markings the batteries are installed
shown in the battery tray.

Install your new thermostat onto its base. To do this, start with the bottom tilted out towards you at first, and line up the two holes in the top of the thermostat with the two hooks on the top of the back plate. Slowly pivot the bottom of the thermostat towards the back plate and push firmly on the bottom half of the thermostat until it is securely latched to the back plate. If the two thermostat halves do not latch easily, remove and try again. Do not attempt to force them together.
NOTE: Before use, remove the plastic film (if present) that is protecting the LCD display screen.

Turn the electrical power back ON to both your heating and/or air conditioning systems. Verify that both systems (and the blower fan used) are operating properly. When set to a high temperature, the heating system should provide warm air after a short time in Heat Mode. Likewise, a cooling system should provide cool air after a short time when set to a low temperature in Cool Mode. Usually, while either is running. If your system uses a blower fan, the rush o moving air should be heard within a short time after either has been morted. Your installation is now complete.

## FRONT PANEL ITEMS

## SYSTEM MODE SWITCH:

he MODE switch has two positions: HEAT and OFF. In the winter, set spring and fall, or when the windows are open, you can set the switch

## NOTE: When the system mode switch is in the OFF position, it is normal for the system's blower fan ("G" terminal if used) to still become activated depending upon the position of the FAN mode switch (see below).

## FAN MODE SWITCH:

The FAN switch has two positions: AUTO and ON.
Ine AUTO position, the operation of the blower fan is determined only by the on/off cycling of the heating system.
When the FAN switch is in the ON position, the system's blower fan will be commanded ON, and remain ON while the FAN switch is in
the ON position (this also includes when the System Mode Switch is in the OFF position).
NOTE: The FAN switch only works if your system provides a wire for the thermostat's "G" terminal.

## PUSH BUTTONS

here are two push buttons to the right of the unit's display screen. These are used to adjust the set point temperature.

## OPERATING INSTRUCTIONS

## TEMPERATURE ADJUSTMENT

While in HEAT mode, a single press on either the UP or DOWN button causes the word "SET" to appear on the screen. Once "SET" is present, the set temperature value starts flashing and the set point temperature can be altered by pressing either the UP or DOWN button once per degree of change, or by holding either button for at least two seconds to automatically increment the set point quickly in the
associated direction.

Based upon the relationship of the set temperature to the displayed ambient room temperature, the thermostat will engage the W
terminal in heat mode, if a temperature demand is present.

## DISPLAY ILLUMINATION:

Pressing either set temperature button will illuminate the display for easier viewing in dim light conditions. The light will remain on for approximately 12 seconds. While the light is illuminated, pressing any throximately 12 more seconds.

## MINIMUM RUN/OFF TIME:

his is determined by the thermostat, and controls the minimum length of time that the thermostat must remain with Heat either On or
Off, before it will automatically switch to the alternate On or Off state. his feature prevents rapid or short cycling of the heating equipment. he time amount for this delay is fixed at 5 minutes between on or off oad changes

## ADJUSTABLE TEMPERATURE STOP

This model has an Adjustable Temperature Stop. This is a set emperature limit, and is user adjustable in one-degree increments. The temperature stop prevents the set temperature from being
adjusted to a value that is higher than the temperature stop setting.
To adjust the temperature stop, always start with the system mode switch in the OFF position. Press and hold the wi key while sliding he mode switch from OFF to HEAT. "Ht Lim" will be displayed on the buttons to adjust the desired limit value, just as you would for adjusting the set temperature under normal operation. NOTE: If buttons are pressed for 4 seconds, the thermostat will accept the value on the screen at that time and return to normal operation. Once he temperature stop is set, you should return to the adjustment mode

## BATIERIES AND MAINIENANCE

year, or sooner if the "LO BAT" battery symbol appears in the lower right portion of the display screen.
To replace the batteries in the thermostat, remove the thermostat's body from the wiring base plate attached to the wall by pressing the humb latch at the bottom center of the unit and swinging the front batteries from the battery tray and discard appropriately.

Install two new Energizer® or DURACELL®, "AA" size Alkaline batteries into the battery tray. Observe the polarity markings shown in the battery compartment to ensure proper installation. When finished, hang the top of the unit by the tabs at the top corners of the base, and then snap the bottom of the unit into place. Do not use unnecessary hang it from the tabs at the top and try again.

## TECHNICAL ASSISTANCE

If you have any problems installing or using this thermostat, please
carefully and thoroughly review the instruction manual. If you require assistance, please contact our Technical Assistance Department at 56-234-8803 during regular business hours between 8:00AM and receive technical assistance online anytime day or night at http://www.luxproproducts.com. Our web site offers you answers to the most common technical questions, and also permits you to email your questions to our technical support staff at your convenience.

## WARRANTY

Limited Warranty: If this unit fails because of defects in materials or workmanship within three years of the date of original purchase, LUX damage by accident, misuse, or failure to follow installation instructions. Implied warranties are limited in duration to three years rom the date of original purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Please return malfunctioning or defective units to the location from which the purchase was made, before returning thermostat. Purchaser assumes all risks and liability or incidental and consequential damage resulting from installation and use of this unit. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you
may also have other rights which vary from state to state. Applicable may also have other rights which vary from state to state. Applicable
in the U.S.A. and Canada only.

(PSD010BFc) ESPAÑOL - IDENTIFICACION DE CABLES Y DIAGRAMAS DE CABLEADO

SISTEMAS SÓLO DE CALEFACCIÓN (CON VENTILADOR)



## COMENTARIOS SOBRE LOS DIAGRAMAS DE CABLEADO:

1. Las líneas RESALTADAS son las que debe conectar a los terminales de este nuevo termostato.
2. En muchos casos, las lineas delgadas, que se indican como "SISTEMA COMUN", no se pueden ver en el termostato porque se encuentran en su equipo de calefacción y refrigeración.
