The Prodigy® control system is the latest example of Lennox’ commitment to advanced HVAC technology. Standard on every Energence® rooftop unit, the Prodigy control system makes setup, troubleshooting and servicing easier than ever.

The Prodigy control system includes:

• Prodigy unit controller

• SmartWire™ system

• Optional Prodigy BACnet module (BTL certified)

• Optional Prodigy LonTalk® module (LonTalk certified)
NAVIGATION
1. Navigation is performed by using the arrowed keys and the enter button

- To reset the Prodigy® unit controller, press the left arrow \( \text{←} \) and hold for 5 seconds
  
  — You will now be at the beginning of the menu structure

- Press the enter \( \text{●} \) or right arrow \( \text{→} \) to go into the sub menus:

- Press the down arrow \( \text{▼} \) until you see \( \text{DATA} \)

- To exit the menu structure, press the left arrow \( \text{←} \)
  
  — Press the left arrow \( \text{←} \) again to return to the Display mode.
DISPLAY

- Display shows the controller’s current state
  - It will show either the current mode of operation or an alarm/status message
- To exit the display mode, press enter
- You are now in the menu structure
- Notice that the first level of the menu structure is located on the controller

*English, French or Spanish language can be selected.*
**ALARMS**

The Prodigy® unit controller displays alarms in descriptive, actionable text.

- To simulate an alarm, press the left arrow until you are in the display mode
- Flip down the switch to the right of the controller labeled Compressor 1HP (s4). It is located on the green trainer board next to the lower right corner of the gray M2
- This will show the alarm for a high-pressure switch trip for Compressor 1
- To silence the alarm, press enter
- To turn off the alarm, simply flip the switch (S4) back to the up position
USB SERVICE REPORTS
1. The Prodigy® controller’s USB port can download service reports

- To generate a report, insert a USB memory stick into the USB port then press enter

- With the display, press enter to write the report

- The display will show it is writing the report and then indicate when it is complete

- The report will be saved to the memory stick with a file name based on the unit’s serial number

- This report can be transferred to any computer via the memory stick
### USB Service Report

**Service Date**: 7/4/2010

**Service Time**: 3:15:00

**Serial No.**: 5609K00002

**Model No.**: LGH036H4ES1Y

**Status**: COOLING

### Runtime Data

<table>
<thead>
<tr>
<th>Component</th>
<th>Before Install</th>
<th>Total Power On</th>
<th>Cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter</td>
<td>286 HRS</td>
<td>1832 HRS</td>
<td>79 CYCLES</td>
</tr>
<tr>
<td>Belt</td>
<td>1162 HRS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blower</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressor 1</td>
<td>0 HRS</td>
<td>0 HRS</td>
<td>0 CYCLES</td>
</tr>
<tr>
<td>Compressor 2</td>
<td>0 HRS</td>
<td>0 HRS</td>
<td>0 CYCLES</td>
</tr>
<tr>
<td>Compressor 3</td>
<td>0 HRS</td>
<td>0 HRS</td>
<td>0 CYCLES</td>
</tr>
<tr>
<td>Compressor 4</td>
<td>14 HRS</td>
<td>0 HRS</td>
<td>2 CYCLES</td>
</tr>
<tr>
<td>Outdoor Fan 1</td>
<td>0 HRS</td>
<td>0 HRS</td>
<td>0 CYCLES</td>
</tr>
<tr>
<td>Outdoor Fan 2</td>
<td>0 HRS</td>
<td>0 HRS</td>
<td>0 CYCLES</td>
</tr>
<tr>
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<tr>
<td>Outdoor Fan 6</td>
<td>5 HRS</td>
<td>0 HRS</td>
<td>14 CYCLES</td>
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<tr>
<td>Heat Stage 1</td>
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<td>0 HRS</td>
<td>0 CYCLES</td>
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<tr>
<td>Heat Stage 2</td>
<td>2 HRS</td>
<td>0 HRS</td>
<td>13 CYCLES</td>
</tr>
<tr>
<td>Free Cooling</td>
<td>15 HRS</td>
<td>0 HRS</td>
<td>1608 CYCLES</td>
</tr>
<tr>
<td>UV Lamp</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Sensor Data

- **OAT**: 100 degF
- **RAT**: 88 degF
- **DAT**: 86 degF
- **ZAT**: 87 degF
- **RH**: 60%
- **CO2**: 415 ppm

### Alarm/Status Log

- **23 ALARM**: STRIKE 3 ON COMP 1 S87 COMP LOCKOUT.
- **CHECK**: CHECK CHARGE, FILTER, AIR FLOW, COIL, USE SERVICE
- **22 ALARM**: COMP 1 LOW PRESS S87 COMP OFF.
- **CHECK**: CHARGE, FILTER, AIR FLOW, COIL
- **21 ALARM**: FILTER S27 REPLACE FILTER OR CHECK FILTER

**END OF REPORT**
USB SERVICE REPORTS

The reports at left are an example of a service call.

1. The first report shows the status of a unit with a faulty compressor and dirty filter
   • The sensor data illustrates the issue

2. The second report shows the same unit with a new compressor and filter
   • Notice the new sensor readings and the reset runtime information
USB PROFILES

www.lennoxccommercial.com
You can also save a unit profile which can be uploaded to another similar unit.

- To save or upload a unit profile, insert a USB memory stick in the USB port
- Press enter when the screen reads then scroll down to and press enter
- The controller will automatically check to see if there is a profile that matches the unit
- If there is a profile saved to the memory stick with a matching cat number, the controller will ask to upload it
- This will instantly upload all setpoints to the unit that are saved to the profile
- If there is no profile saved, the controller will ask if you want to save the unit’s profile
SELF-TEST

The Prodigy® unit controller features a self-test function. This allows the user to individually test critical component operation.

- First, navigate to the SERVICE menu and press enter.
- Then, press enter again to access the TEST menu.
- Press the down arrow to find COOL and press enter.
- Then select either an individual compressor or stage (L or H).
- The controller will turn on just that compressor (stage).
- It will then return the RAT and DAT as a check of correct operation.
REPLACE

The replace function is used to reset component runtime information. To demonstrate, we will use a filter replacement.

• First, navigate to the **SERVICE** menu and press enter.

• Press the down arrow to scroll to **REPLACE** and press enter.

• Press enter on **FILTER** which should be the first category.

• To reset the filter runtime, press enter.

• This resets the filter runtime, which should be done after every filter change.
The Prodigy® unit controller contains runtime information on all key components.

• Navigate to the DATA menu and press enter
• Press enter again on RUNTIMES to access the menu
• You can scroll through all the runtimes using the up and down arrows ▲ ▼
• Press the left button twice to return to the DATA menu
HISTORY

You can also view the history of alarm and status messages.

• From the DATA screen, press enter and scroll to HISTORY and press enter.

• Press enter on the ALARMS screen.

• The Prodigy® unit controller will display the last five alarms.

• Press the left button three times to return to the DATA screen.
The Prodigy® unit controller can also display important sensor data.

- Once on the **DATA** screen, press enter and scroll to **SENSORS** then press enter
- You can scroll through all the sensors and their current readings
- This data can be critical in diagnosing a problem
- Press the left button twice to return to the **DATA** menu
SETPOINTS
Changing setpoints on the Prodigy® unit controller is quick and easy.

- First, navigate to the **SETTINGS** menu and press enter.
- Press the down arrow ▼ to scroll to the **SETPOINTS** menu and press enter.
- Press enter to view the **COOLING** setpoints.
- Press enter to change the **OCCUPIED** cooling setpoint.
- Use the up and down arrows ▲ ▼ change the setpoint.
- Press enter to set the value.
SMARTWIRE™ SYSTEM
The SmartWire™ system is designed to simplify field wiring and sensor installation.

1. Advanced connectors are color-coded, labeled and keyed to prevent miswiring and ensure units are installed and set up correctly
   - The wire-coloring scheme is standard across all units
   - Each connection is intuitively labeled to simplify troubleshooting
Don’t just choose a Lennox® product…choose a Lennox Commercial Comfort System. These complete packages of HVAC solutions provide tools to create a healthy and comfortable environment.

**Packaged Units**
- Strategos® Rooftop Units
- Energence® Rooftop Units
- Landmark® Rooftop Units

**Split Systems**
- S-Class™ Air Conditioners/Heat Pumps
- T-Class™ Air Conditioners/Heat Pumps
- Air Handlers
- Indoor Coils

**Heating**
- T-Class Unit Heaters
- Unit Heaters
- Duct Furnaces
- Furnaces

**Commercial Controls**
- Prodigy® Control System
- L Connection® Network
- Systems Integration Solutions
- Commercial Thermostats

**Indoor Air Quality**
- Humiditrol® Dehumidification System
- Demand Control Ventilation
- Energy Recovery Systems
- Air Filters
- UVC Germicidal Lights

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