

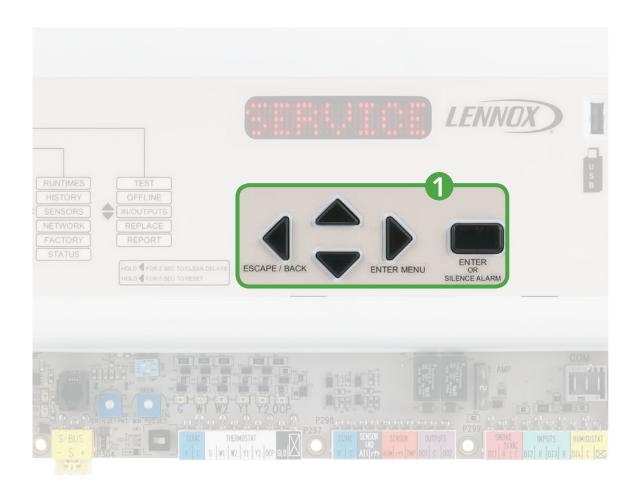


The Prodigy® control system is the latest example of Lennox' commitment to advanced HVAC technology. Standard on every Strategos® rooftop unit, the Prodigy control system makes setup, troubleshooting and servicing easier than ever.

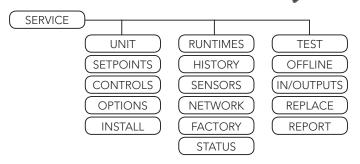
The Prodigy control system includes:

- 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 and hold for 5 seconds
 - You will now be at the beginning of the menu structure
 - Press the enter or right arrow to go into the sub menus:

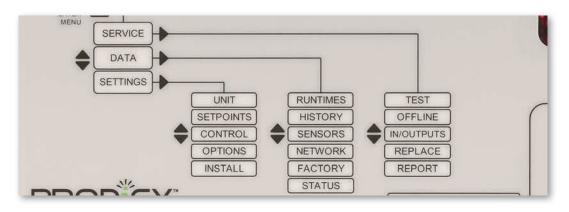


- Press the down arrow until you see
- To exit the menu structure, press the left arrow
 - Press the left arrow **q** again to return to the Display mode.



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 **REPORT** displayed, 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
                3:15:00
                5609K00002
Service Time
                7.06.00
 Serial No.
 M2 Version
                1.06.00
                                                               DB1 Version
                 2
 Unit No.
  Sbus Address
                                                               BACnet Address
                 36L87
                 LGH036H4ES1Y
                                                               Service Time
  CAT No.
             4:23:00
                                                               Serial No.
  MODEL NO.
                                                                               5609K00002
   Status
                                     79 CYCLES
                                                               M2 Version
   ===========
                                                               DB1 Version
                                     _____
                       1832 HRS
   Runtime Data
                                                              Unit No.
      Total Power On
                        286 HRS
                                                              Sbus Address
                        2040 HRS
       Before Install
                                                              BACnet Address
                                     131 CYCLES
                        1063 HRS
       Filter
                                      66 CYCLES
                                                              CAT No.
                        1162 HRS
                                                              MODEL NO.
       Belt
                          46 HRS
       Blower
                                       0 CYCLES
                                                              Status
       Compressor 1
                           0 HRS
                                                              COOLING
                           0 HRS
                                        0 CYCLES
        Compressor 2
                                       32 CYCLES
                           0 HRS
        Compressor 3
                           14 HRS
                                        2 CYCLES
        Compressor 4
                                                                                  1832 HRS
                            0 HRS
                                        0 CYCLES
                                                                 Before Install
        Outdoor Fan 1
                                                                                                80 CYCLES
                                                               Filter
                                                                                  286 HRS
                                        0 CYCLES
         Outdoor Fan 2
                            0 HRS
                                                                                   0 HRS
                                                                Belt
                                        0 CYCLES
         Outdoor Fan 3
                            0 HRS
                                                                                 1063 HRS
                                                                Blower
                            0 HRS
                                         0 CYCLES
         Outdoor Fan 4
                                                                                 1162 HRS
                                        17 CYCLES
                                                                Compressor 1
         Outdoor Fan 5
                            0 HRS
                                                                                               131 CYCLES
                                                                                   0 HRS
                                         16 CYCLES
                                                                Compressor 2
                             5 HRS
          Outdoor Fan 6
                                                                                               0 CYCLES
                                                                                   0 HRS
                             0 HRS
                                         13 CYCLES
                                                                Compressor 3
          Heat Stage 1
                                        1608 CYCLES
                                                                                   0 HRS
                                                                Compressor 4
                             2 HRS
          Heat Stage 2
                                                                                                0 CYCLES
                                                               Outdoor Fan 1
                                                                                   0 HRS
                             15 HRS
                                                                                               0 CYCLES
                                                                                  14 HRS
          Reheat
                                                               Outdoor Fan 2
                              0 HRS
                                                                                               32 CYCLES
          Free Cooling
                                                                                   0 HRS
                           Outdoor Fan 3
                                                                                               2 CYCLES
        J. 2007
           UV Lamp
                                                                                  0 HRS
                                                               Outdoor Fan 4
                                                                                               0 CYCLES
                                                                                   0 HRS
                                                               Outdoor Fan 5
                                                                                               0 CYCLES
                                                                                   0 HRS
                                                               Outdoor Fan 6
                                                                                               0 CYCLES
         Sensor Data
                                                                                  0 HRS
           OAT : 100 degF
                                                               Heat Stage 1
                                                                                               0 CYCLES
                                                                                  5 HRS
            RAT : 85 degF
                                                               Heat Stage 2
                                                                                              17 CYCLES
                                                                                  0 HRS
                                                               Reheat
            DAT : 86 degF
                                                                                              16 CYCLES
                                                                                  2 HRS
                                                               Free Cooling
            ZAT : 83 degF
                                                                                              13 CYCLES
                                                                                 15 HRS
                                                              UV Lamp
            RH : 60 %
                                                                                            1608 CYCLES
                                                           - 113 PMII
                                23 ALARM(23) STRIKE 3 ON COMP
                                 CHECK CHECK CHARGE, FILTER, AT
                                                              OAT : 100 degF
          Alarm/Status Log
              ( 23) 7.04.2010 1:05:00 MENU TO CLEAR LOCKOUTS.
                                                              RAT : 76 degF
                                 22 ALARM(22) COMP 1 LOW PRESS
                                                              DAT : 57 degF
              22) 7.04.2010 1:00:00 CHARGE, FILTERS, AIR FLOM. C
                                                              ZAT : 77 degF
                                                              RH : 50 %
                                                             CO2 : 415 ppm
            \ JJ \ V.JV.&U.NV &A.V.JV.VV \ SHALLER OA!
                                                          Alarm/Status Log
            END OF REPORT
                                                                                23 ALARM(23) STRIKE 3 ON COMP 1 S87 COMP LOCKOUT.
                                                                                CHECK CHECK CHARGE, FILTER, AIR FLOW, COIL, USE SERVICE
                                                             ( 23) 7.04.2010 1:05:00 MENU TO CLEAR LOCKOUTS.
                                                                                22 ALARM(22) COMP 1 LOW PRESS S87 COMP OFF. CHECK
                                                            ( 22) 7.04.2010 1:00:00 CHARGE, FILTERS, AIR FLOW. COIL
                                                                               ALARM(5) FILTER S27 REPLACE FILTER OR CHECK FILTER
                                                            ( 5) 6.30.2010 21:05:00 SWITCH S27
                                                         ( V.JV.&V.AV.AV.AV.AV.V AL-VJ.VVV OTHALVAL DA/
```

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



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 USB then scroll down to PROFILES 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 menu
- Press the down arrow 🔻 to find OOL 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 enter on 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

RUNTIMES



⊲ 17 ⊳

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
- Press the left button three times to return to the screen

SENSOR DATA

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



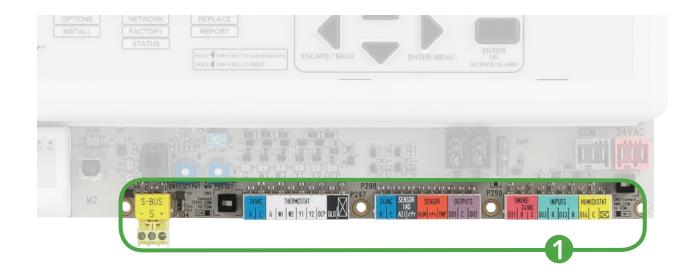
⊲ 21 ⊳

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 **t**o 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

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- Landmark® Rooftop Units

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- Air Handlers
- Indoor Coils

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- Unit Heaters
- Duct Furnaces
- Furnaces

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