



COMMERCIAL CONTROL SYSTEM



Intelligence in Control

Standard on every Emergence® and Strategos® rooftop unit, the Prodigy® control system makes setup, troubleshooting and servicing easier than ever. The Prodigy control system includes the Prodigy unit controller, SmartWire™ system and optional Prodigy BACnet and Prodigy LonTalk® modules.

PRODIGY® UNIT CONTROLLER AT A GLANCE:

Intuitive user interface guides setup

Quicker, more accurate commissioning

Service reports are downloadable via patent-pending USB service port

Simple firmware upgrades with a flash drive in the USB port

Data assists in making “service versus replacement” decisions

Self-test function helps verify components are operating correctly

Helps ensure the most accurate setup and least service time

Certified BACnet and LonTalk® open-protocol integration options available



SMARTWIRE™ SYSTEM AT A GLANCE:

Keyed and color-coded field wiring connections to help prevent miswiring

Labeled connections allow quicker installation and troubleshooting

Verification when and where you need it



When it comes to understanding and confirming proper installation, the Prodigy unit controller makes setting up and commissioning a rooftop unit easier than ever. Using the patent-pending USB service port, the unit generates service reports that can be downloaded at any time to a USB flash drive. Reports help provide service verification with encrypted time/date stamp, unit serial number, alarm code log and critical runtime information. An intuitive user interface provides a guided setup function and helps ensure that all components are installed per design specifications.

By verifying the unit's status before and after maintenance or service, the Prodigy unit controller provides a quick and efficient way to validate appropriate maintenance done on any Emergence rooftop unit. This information can also be used to help diagnose problems and make “replace versus repair” decisions.

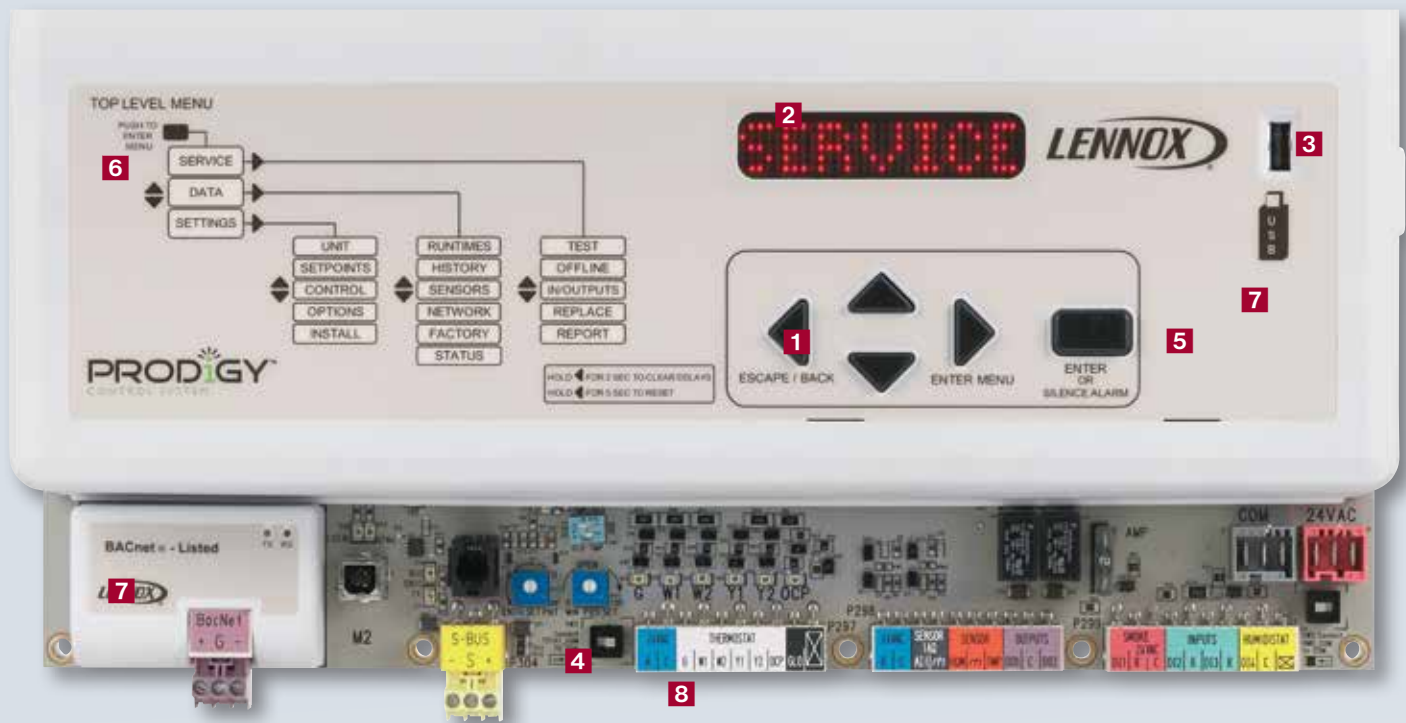
The most efficient maintenance and service

The Prodigy unit controller not only helps verify maintenance effectiveness, but also increases the efficiency of maintenance and service calls. A self-test function individually tests critical components, ensuring their correct operation and identifying any maintenance requirements. The self-test mode can test the operation of individual compressors, the blower, heating operation, damper operation, condensing fans, sensors, and more. Each critical component's test will activate only that component and return either a status message or a sensor reading to ensure proper operation. By reducing maintenance and service time, the self-test function may help contractors get to more job sites per day, increasing productivity.

Verification when and where you need it The Prodigy unit controller service report:

- Validates effectiveness of service and maintenance work
- Makes “service versus replacement” decisions based on component runtime
- Alarm and status log provides quick view of problem areas, speeding up maintenance
- Allows trending of service and unit operation over time with time/date-stamped reports
- Date-and-time stamp allows verification that service was performed on time
- Helps assure correct unit operation after maintenance with sensor readings

USB Service Report Example		
USB SERVICE REPORT		
Service Date	1/1/2010	
Service Time	12:00:00	
Serial No.	3456789012	
HW Version	7.02.00	
SubVersion	1.05.00	
Unit No.	2	
Zone Address	2	
BACnet Address	2	
CAT No.	2	
MODEL NO.	NO CN	
STATUS	NORMAL/HEATING	
Runtime Data		
Total Power on	1832 HRS	
Before Install	286 HRS	79 CYCLES
Filter	2040 HRS	
Blower	1063 HRS	
Compressor 1	1162 HRS	
Compressor 2	48 HRS	131 CYCLES
Compressor 3	14 HRS	68 CYCLES
Compressor 4	0 HRS	17 CYCLES
Outdoor Fan 1	0 HRS	0 CYCLES
Outdoor Fan 2	14 HRS	0 CYCLES
Outdoor Fan 3	0 HRS	32 CYCLES
Outdoor Fan 4	0 HRS	2 CYCLES
Outdoor Fan 5	0 HRS	0 CYCLES
Outdoor Fan 6	0 HRS	0 CYCLES
Outdoor Fan 7	0 HRS	0 CYCLES
Outdoor Fan 8	0 HRS	0 CYCLES
Outdoor Fan 9	0 HRS	0 CYCLES
Outdoor Fan 10	0 HRS	0 CYCLES



- 1 Push-Buttons:** Provide easy navigation during setup and diagnostics and allow intuitive setup steps without dip switches.
- 2 Scrolling Display:** Improves communication with clearly displayed text instead of codes. High contrast ratio improves readability in varied environments. Available in English, Spanish and French.
- 3 USB Port (Patent Pending):** Provides the ability to upgrade firmware and download service reports.
- 4 Integrated Controls and Terminal Boards:** Improve reliability and flexibility with fewer add-on boards.
- 5 Guided Menu Setup:** Walks the user through the setup process and reduces complexity of start-up and commissioning to help ensure the system is set up properly per design specifications.
- 6 Time Clock with Runtime Information for System Components, including:**
 - Compressors
 - Blower
 - Condensing fans
 - Free cooling
 - Heating
 - Power exhaust
 - Dehumidification mode
 - Date-and-time stamped alarm codes

- 7 BACnet and LonTalk® Open-Protocol Integration:** Assures easy integration with other devices using either open protocol. BACnet and Lon® integration is simple with the Prodigy® control system. A BTL-listed Prodigy BACnet Module is available to connect to a BACnet building automation system. A LonMark®-certified Prodigy LonTalk® Module is available for connecting to a Lon building automation system. By passing stringent requirements and achieving certified status, Prodigy LonTalk and BACnet modules ensure seamless integration with any Lon and BACnet building automation system.



- 8 SmartWire™ System (Patent Pending):** The SmartWire™ system is designed to simplify field sensor and thermostat installation. By using keyed and color-coded connectors, the SmartWire system helps prevent miswiring and ensure the unit and components are installed properly. The wire-coloring scheme is standardized across all models, and each connection is intuitively labeled to make troubleshooting and servicing quick and easy.

SMARTWIRE™ SYSTEM

Solutions for customized comfort

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.



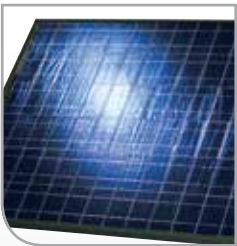
Packaged Units

- Emergence® Rooftop Units
- Strategos® Rooftop Units
- Landmark® Rooftop Units
- Raider™ Rooftop Units



Commercial Controls

- Systems Integration Solutions
- Commercial Thermostats
- L Connection® Network



Solar Ready

- SunSource® Commercial Energy System



Indoor Air Quality

- Humiditrol® Dehumidification System
- Demand Control Ventilation
- Air Filters
- UVC Lamps



Split Systems

- S-Class® Air Conditioners/Heat Pumps
- T-Class™ Air Conditioners/Heat Pumps
- Air Handlers
- Indoor Coils



Heating

- Unit Heaters
- Duct Furnaces
- Furnaces



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