



ENGINEERING DATA

CONTROLS

SIGNATURESTAT™

DAVE LENNOX SIGNATURE™ COLLECTION

Home Comfort Control

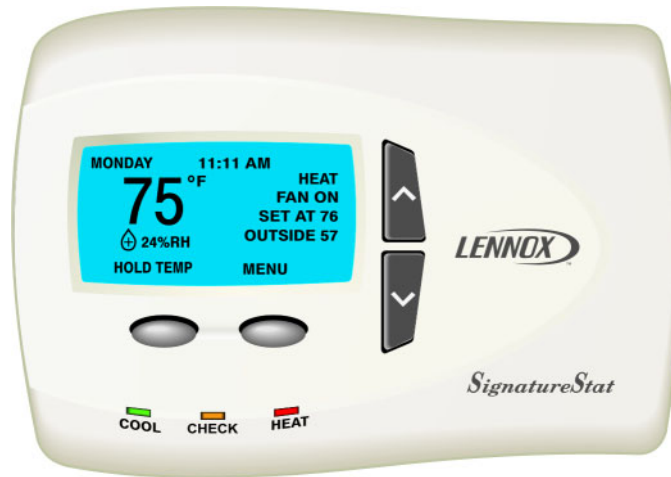
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Supersedes November 2004



Remote Outdoor Sensor Furnished



1 Heat / 1 Cool Single Stage
2 Heat / 2 Cool Multi-Stage
2 Heat / 2 Cool Heat Pump

FEATURES

- Combination temperature and humidity control in one device
- Easy-to-use, menu driven. Back-lit dot-matrix LCD screen
- Auto-Changeover
- IAQ monitor - Displays automatic Indoor Air Quality reminders for filters and Lennox humidifiers when routine maintenance is required
- Dewpoint Control (heating mode only)
- Security protection prevents tampering with programming menus, setpoints or set-up functions
- Compressor short-cycle protection (5 minutes)
- Resume Program
- Remote Outdoor Sensor included
- Energy efficient recovery - Allows gradual recovery from setback temperature to reduce energy usage
- Compact, high impact plastic case, sleek design, egg shell color

WARRANTY

Limited five years in residential applications.

MAIN MENU DISPLAY

- Day of week
- Time of day
- Indoor temperature
- Setpoint temperature (SET AT)
- Outdoor temperature (OUTSIDE) (with furnished remote outdoor sensor)
- System mode
(OFF / HEAT / COOL / AUTO) heating/cooling system
(OFF / HEAT / COOL / AUTO / EMER HEAT) heat pump systems
- Fan mode (FAN ON / AUTO / INTERMITTENT)

FULLY PROGRAMMABLE

- 7 day, 5/2 day or 5/1/1/day programming
- 2 or 4 events per day
- Copy from one day's programming to another
- Maintains all programmed parameters indefinitely in the event of a power outage. Time-of-day is retained for at least two hours. No battery required

HUMIDITY CONTROL

- Set levels from thermostat - eliminates separate controls
- Humidification control in heating mode only
- Dehumidification control in cooling mode only
- Basic humidity control - Only with heating/cooling call
- Precision humidity control - With or without heating/cooling call
- Icon on display screen indicates humidification (+) or dehumidification (-) and relative humidity (%)

LED SYSTEM INDICATORS

- (COOL / CHECK / HEAT) 1 heat / 1 cool model
- (COOL / CHECK / HEAT) 2 heat / 2 cool model
- (AUX / CHECK / EMER) multi-stage heat pump model

FOUR MANUAL OVERRIDE SETTINGS

- Temporary 3-hour override
- Permanent override
- Temporary adjustable override (1 to 12 hours)
- Adjustable vacation override (1 to 45 days)

FEATURES

USER SETTINGS

Fahrenheit or Celsius temperature display
12 or 24 hour display
Setpoint temperature display (Yes / No)
Number of events per day (2 or 4)
Differential and Delay settings
1st stage differential (0.5 to 3°F)
2nd stage differential (2 to 8°F)
2nd stage delay (5 - 40 minutes)
Filter monitor (set number of hours between filter changes)
Humidifier maintenance
Set min./max. heating and cooling limits (prevents tampering)
Security settings. Two levels of security - allow temporary changes to temperature or do not allow any changes
4-digit security code

INSTALLER SETTINGS

System setup
1st stage heating (gas/oil or electric) (conventional models)
Auxiliary heat (multi-stage heat pump model) choose internal (compressor on) or remote fossil fuel heating system
Residual cooling option (30, 60, 90, 120 seconds additional operation after cooling demand)
Balance points (low/high for heat pump model) when used with furnished outdoor sensor
Auto changeover (enable/disable)
Energy efficient recovery (enable/disable)
Deadband setpoint (adjustable 3 - 8°F) use with auto changeover
Temperature display offset from actual (plus or minus 3°F)
Humiditrol® (enable/disable) - for use with Humiditrol Whole Home Dehumidification System.
Security code for for protecting Installer settings
Contact information - Input name and phone number

REMOTE OUTDOOR SENSOR FURNISHED

When installed outdoors, allows the thermostat to display outdoor temperature and adjust indoor dewpoint temperature for precision humidity control. Also provides balance point control for multi-stage heat pumps. Maximum distance between SignatureStat and outdoor sensor is 300 ft.

NOTE - Twisted pair wire required between sensor and SignatureStat (order **84X49** - 1000 ft. roll).

SPECIFICATIONS

For use with residential equipment only.
Temperature setpoint range - 45°F to 90°F
Humidity setpoint range
Humidification mode -15% to 45%
Dehumidification mode - 45% to 60%
Power supply: 24VAC (18 to 30VAC maximum), 60 Hz
Dimensions (H x W x D): 3-3/4 x 5-3/8 x 1-1/4 in.
Factory preset program conforms to EPA ENERGYSTAR™ recommended setpoints
Can be used with the Harmony III® Zoning System.

81M26 - 1 Heat/1 Cool - Single stage gas/electric and single stage heat pumps with no auxiliary heat
Terminals: R, W₁, Y₁, O, B, G, H, D, C, L + outdoor sensor

81M27 - 2 Heat/2 Cool - Multi-stage gas/electric
Terminals: R, W₁, W₂, Y₁, Y₂, O, B, G, H, D, C, L + outdoor sensor

81M28 - 2 Heat/2 Cool - Multi-stage heat pumps
Terminals: R, Y₁, Y₂, W₂, E, O, B, G, H, D, C, L + outdoor sensor

NOTE - Refer to SignatureStat Service and Application Manual for additional information.



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