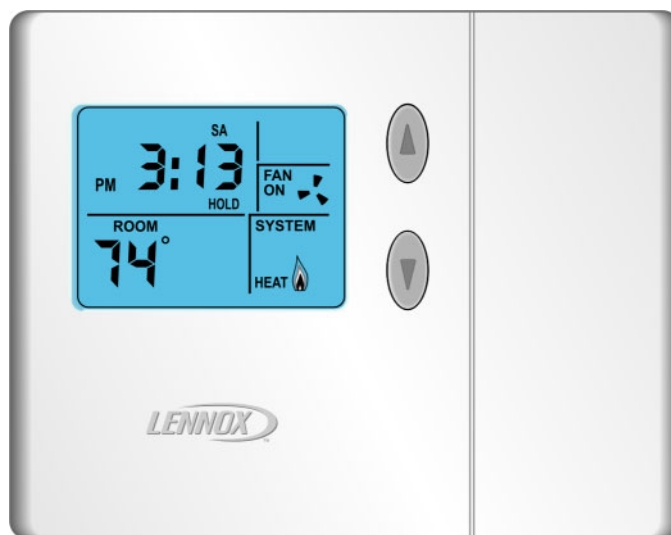




ENGINEERING DATA

## Digital Thermostat - 5-2 Day Programmable

Bulletin No. 210388  
September 2007  
Supersedes February 2006



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

**FEATURES**

Large, back-lit, easy-to-read LCD screen.  
Digital display offers more accurate control of temperature settings than mechanical controls.  
Large buttons are easy to push.  
Sleek, modern appearance works well with any decor.  
System status icons show when the HVAC system is running.  
Filter monitor displays when it is time to service the HVAC system filter.  
Service monitor indicates when the cooling system is not operating properly.  
Gradually changes room temperature to next program period for increased comfort.  
Hard-wired to the indoor unit power supply. No batteries to change.  
Heat pump model can be used in dual-fuel applications or applications with auxiliary heat lockout. Requires optional outdoor temperature sensor.  
Five-minute compressor short-cycle protection.  
Minimum cycle time of 6 minutes.

**FULLY PROGRAMMABLE**

5-2 day programming, four periods per day.  
Day/Time button allows quick clock setting changes.  
Heat/Cool buttons simplify setting precise heating and cooling temperatures  
Fan button selects continuous or automatic blower operation.  
Programming button sets, reviews, or changes schedule.  
Hold features will permanently hold setpoints without changing the program.  
Maintains program in memory for 24-hours in the event of a power outage.

**DISPLAY**

Day and time display will show current day and time.  
Program/Hold indicators show the current program and the program override (hold) status.  
Compressor stage indicators show if the first or second stage of the compressor is activated (if applicable).  
Filter reminder will be displayed when the filter reminder timer expires.  
Room - shows the current room temperature  
Setpoint - shows the set point temperature  
System selector indicators - shows the current selection of system control; COOL, OFF, HEAT, and EMG. HEAT (heat pump model only).  
If heating is activated, the system status will show a flame animation.  
If cooling is activated, the system status will show a snowflake animation.  
Fan selection indicator shows the current selection of fan control which can be ON or AUTO.  
If the fan is activated, the fan status indicator will show a rotating fan animation.  
The service indicator will show a 1HZ blinking indicator when 24VAC is present at the L terminal and Y<sub>1</sub> is on for five minutes.  
LCD backlight turns on for 30 seconds when any key is pressed.  
Outdoor Sensor (optional for heat pump models) is used to control balance points on multi-stage heat pumps.

## FEATURES

### SPECIFICATIONS

Temperature set range: 50°F to 90°F.  
Room Temperature Display range: 35°F to 99°F.  
Room Temperature Display: User selectable Fahrenheit or Celsius.  
Fan control: On/Auto.  
Stage up timer: 15 minutes (multi-stage models only).  
User selectable filter reminder: Off, 1, 3, 6. or 12 months.  
User selectable maintenance reminder: Off, 6. or 12 months.  
Memory, clock, filter and maintenance counters maintained for 24 hours of power outage.  
Power Supply: 18-30 VAC - 60hz.  
Dimensions (H x W x D): 3-1/2 x 4-9/16 x 1-5/16 in.

### WARRANTY

**Two-year** limited warranty.  
Refer to Lennox Equipment Limited Warranty certificate included with equipment for details.

### ORDERING INFORMATION

**51M34** - 1 Heat/1 Cool - Conventional Heat/cool  
Terminals: R, C, Y<sub>1</sub>, W<sub>1</sub>, G, L

**51M35** - 2 Heat/2 Cool - Conventional Heat/cool  
Terminals: R, C, Y<sub>1</sub>, Y<sub>2</sub>, W<sub>1</sub>, W<sub>2</sub>, G, L

**51M37** - 3 Heat/2 Cool - Heat Pump  
Terminals: R, C, Y<sub>1</sub>, Y<sub>2</sub>, W<sub>1</sub>, E, O, B, G, L, T, T

### OPTIONAL ACCESSORIES - ORDERED EXTRA

#### **Outdoor Temperature Sensor - X2658 (For Heat Pump Models Only)**

Provides balance point control for multi-stage heat pumps.

Outdoor sensor uses 22AWG thermostat wire up to 150 ft. long.

#### **Wall Plate - X2659**

## REVISIONS

Sections	Description of Change
Front page	Removed Merit® designation.



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