

# **SPECIFICATION SHEET**

## COMMUNICATING THERMOSTAT MODEL 8870

## **MODEL 8870 COMMUNICATING THERMOSTAT**

The thermostat shall:

- Be one thermostat capable of heat/cool or heat pump, single or multi-stage operation
- · Be capable of standalone operation, independent of the thermostat network
- Be capable of controlling space demand requirements by sensing space temperature and determining the heating or cooling demand with a control accuracy of 1 degree
- · Be capable of controlling temperature or relative humidity
- · Be capable of password protection
- · Be backlit with the option to disable back-lighting
- · Have field adjustable differential control
- · Have field offset capability
- · Have the ability to be configured and addressed via a menu-driven interface
- Control dual-fuel heat pumps based upon outdoor high and low balance points
- Display setpoint(s) and room ambient simultaneously with option to hide setpoints
- · Have a mode button for selecting heating, cooling or automatic changeover mode of operation
- · Have a button to allow the system fan to operate in continuous or automatic mode
- Display multiple remote temperatures
- Be capable of connecting to a remote flush-mount temperature sensor in order to hide the thermostat from view
- Control space temperatures to maintain individual heating and cooling setpoints
- Manufacturer Aprilaire® Model 8870

#### **Message Center Display**

The message center display consists of 2, 16-character lines each actuated via scroll-through menus selected by the "Message Center's" Up and Down buttons.

Thermostat set-up features:

- . Security and lockout settings
- Offset settings
- · High low balance for heat pump applications
- Backlight setup
- Programmers using third-party software can send custom messages to this display





CURRENT STATUS Automatic Fan

#### **Main Display**

The Model 8870 Thermostat's easy-to-read, backlit main display is designed for optimal viewing. All information about system settings and current conditions is provided including:

- Room temperature
- · Mode of operation
- Heat/Cool setpoints
- Fan ON or AUTO
- Network status
- Remote or outdoor temperature (with optional sensor)
- Relative humidity (with optional sensor)

## **TECHNICAL SPECIFICATIONS**

Control Voltage: Switched Voltage:

**Maximum Operating Current:** 

Temperature: Humidity: Dimensions:

HVAC Terminals: Communication Terminals: 24 VAC +/-20% 18-30 VAC

2.0A total at rated voltage, through all outputs/1.0A through any one output

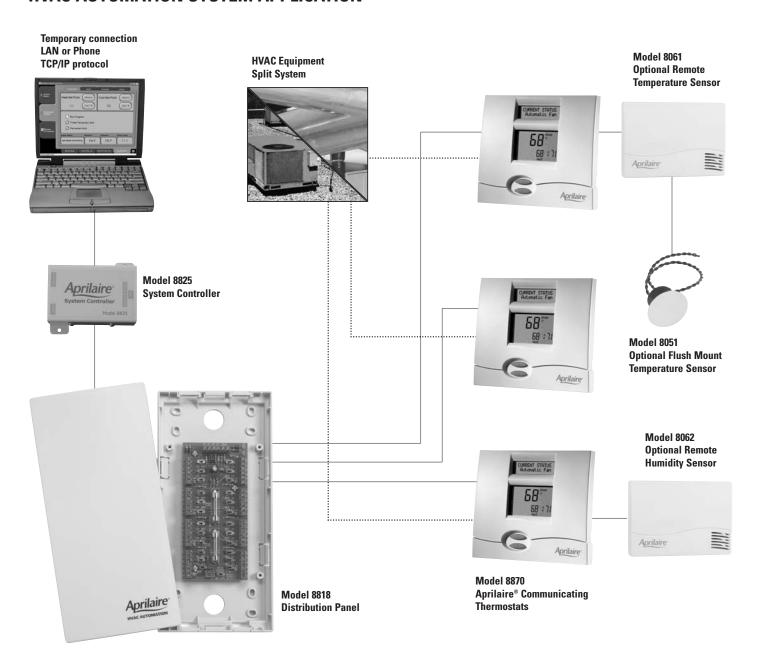
Control Accuracy: +/-1.0° F; Control Range: 40 to 90° F; Operating Range: 32 to 99° F

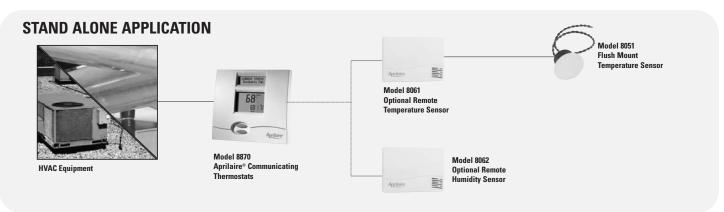
Control Range: 10 to 90%  $\pm$  5% (With optional sensor); Comfort Range: 10-45%  $\pm$  3%

5.01" H x 5.52" W x 1.15" D RH, RC, W1, W2, Y1, Y2, G, O B

A+, A- (Transmit terminals); B+, B- (Receive terminals)

## **HVAC AUTOMATION SYSTEM APPLICATION**





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