

Totaline® Deluxe IAQ Home Comfort Systems

Control comfort and Indoor Air Quality (IAQ) throughout the entire home with the Totaline® Deluxe IAQ Home Comfort System. Totaline® Deluxe IAQ Systems eliminate the need for multiple controls in the living space, by managing the home's temperature, humidification, dehumidification, ventilation and air filtration - all from a single, effortless touchscreen control.

The two-piece design of the Totaline® Deluxe IAQ Home Comfort System includes both a control (the thermostat) and an Equipment Interface Module (EIM). Only three wires are required for installing the thermostat in the living space, and everything else is wired through the EIM positioned at the equipment.

Not only does the three-wire installation save you time, for multi-stage equipment or a heat pump you won't have to pull any additional wires.

Deluxe IAQ Thermostat Features:

- Touchscreen Interaction — Easy-to-follow menu-driven operation simplifies programming by responding to your choices.
- Smart Change/Check Reminders — Lets you know when to service, replace filters or UV bulbs (based on actual usage) and humidifier pads.
- Precise Comfort Control (+/- 1°F) — Maintains consistent comfort to the highest level of accuracy.
- Specifications:
 - 7 Day Multiple Day Programming or Non-Programmable
 - Changeover: Auto/Manual Selectable
 - Switch Positions (System): HEAT-OFF-COOL-AUTO-EM.HEAT
 - Switch Positions (Fan): AUTO-ON-CIRC
 - Power Method: Communicating
 - Terminal Designations: 1, 2, 3
 - Dimensions: 4-9/16 in. high x 6 in. wide x 1 1/4 in. deep
16 mm high x 152 mm wide x 32 mm deep
 - Setting Temperature Range: Heat: 40°F to 90°F; Cool: 50°F to 99°F,
Heat: 4.5°C to 32°C; Cool: 10°C to 37°C
 - Differential Temperature: 1°F, 0.5°C
 - Sensor Element : Thermistor
 - Operating Humidity Range (% RH): 5 to 90% RH, non-condensing
 - Display Size: 10 sq. in.
 - Humidification Setting Range: 10 to 60% RH.
 - Dehumidification Setting Range: 40 to 80% RH.
 - Voltage: 20 to 30 Vac

Deluxe IAQ Interface Module Features:

- Three-Wire Communication, from the Thermostat to the Equipment Interface Module make even retrofit installations quick and easy.
- Controls Humidification: Terminals allow you to wire and control bypass, flow-through or steam humidifiers.
- Controls Dehumidification: Terminals allow you to wire and control a whole-house dehumidifier, or can be used to configure air conditioning to dehumidify at low fan speeds.
- Controls Ventilation: Terminals allow you to wire and control HRVs, ERVs or fresh-air dampers to provide ventilation and meet ASHRAE 62.2 ventilation codes.
- Solid-State Relays: Relays reliably switch the equipment on and off through the EIM at the equipment.
- Universal Application: Works with almost every brand of heating/cooling equipment up to 3 Heat/2 Cool conventional and 4 Heat/2 Cool heat pump with two stages of auxiliary heat.
- Indoor/Outdoor Sensing Capability
- Specifications:
 - Application: Heat/Cool or Heat Pump with Auxiliary Heat
 - Power Method: Hard wired
 - Terminal Designations: 1, 2, 3, C, R, Rc, Rh, W-O/B, W2-Aux, W3-Aux2, Y, Y2, G, L, Out1, Out2, In1, In2, Dats1, Dats2, Hum1, Hum2, Dh1, Dh2, Vnt1, Vnt2
 - Dimensions: 7-1/4 in. high x 4 1/2 in wide x 1 3/8 in deep
185 mm high x 116 mm wide x 34 mm deep



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Thermostats

Totaline® Deluxe IAQ Home Comfort Systems continued

Deluxe IAQ Interface Module Specifications (continued):

- Frequency: 50 Hz, 60 Hz
- Stages: Up to 4 Heat/2 Cool
- Outdoor Sensor: Yes, optional
- Discharge Sensor: Yes, optional
- Remote Sensor: Yes, optional
- Heat Current: 1.0 A running
- Cool Current: 1.0 A running
- Fan Current: 0.6A running
- Operating Humidity Range (% RH): 5 to 90% RH, non-condensing
- Voltage: 20 to 30 Vac

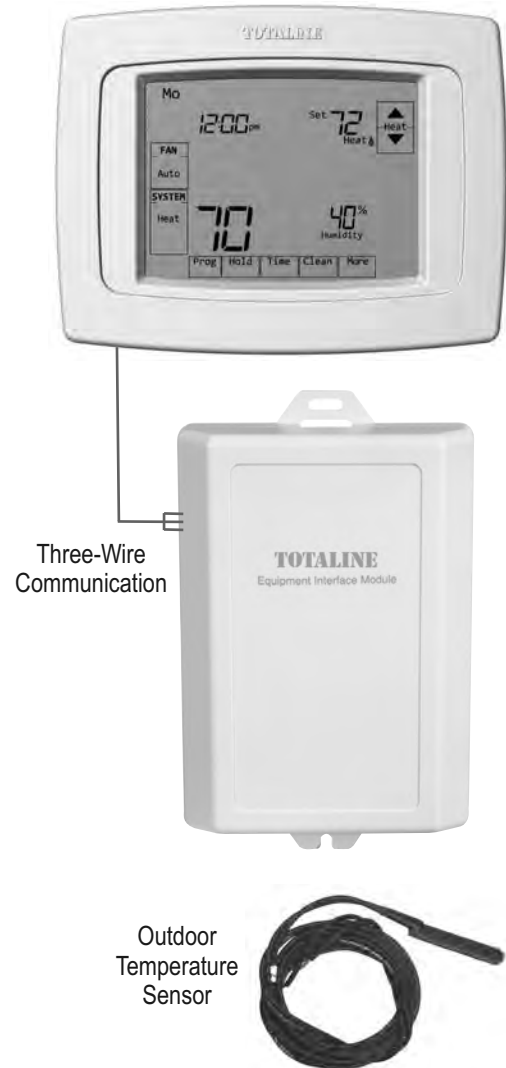
Optional Outdoor Temperature Sensor (included in P370K-1320-YPK Deluxe IAQ Comfort System) senses outdoor temperature for the Totaline® Deluxe IAQ Comfort Systems and also can be used for dual fuel balance point temperature operation in heat pump applications.

Deluxe IAQ Outdoor Temperature Sensor Features:

- Mounting clip allows easy sensor positioning on siding or soffit.
- Includes 60 in. lead wires.
- Factory calibrated. No field calibration required.
- Maximum wire run of 200 feet.
- Specifications
 - Dimensions: 2 1/4 in. x 3/8 in. with 60 in. lead wires.
57 mm x 10 mm with 1524 mm lead wires.
 - Mounting Mounting Clip provided and screws provided.
 - Operating Humidity Range (% RH) 5 to 95% RH, non-condensing
 - Temperature Range, Ambient: -40°F to +120°F, -40°C to +49°C.

Ordering Information

Part Number	Description
P370K-1320-EIM	7-Day Programmable Thermostat with Equipment Interface Module
P370K-1320-YPK	7-Day Programmable Thermostat with Equipment Interface Module and Outdoor Temperature Sensor



Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration