



Zero degrees of difficulty

Description

The TQX Smart Thermostat is the easiest and most intelligent connected thermostat. Not only does it connect directly with your smart-speaker allowing local and remote control via your existing smart-home app, it also has the latest millimetre wave occupancy detection technology and remote sensing capabilities to delivery full house comfort.

Unlike other thermostats with remote sensors, the TQX allows you to use the occupancy, temperature and humidity data for other smart-home integrations in your smart-home App.

System compatibility

- Conventional: Up to 2 heat, 2 cool
- Heat pump: Up to 4 heat, 2 cool
- PTAC: Conventional or Heat pump
- Fan coil: Binary output 2-pipe or 4-pipe
- Up to 2 auxiliary outputs: Humidification, de-humidification or mechanical ventilation
- Power: C-wire or LUX Power Bridge (sold separately)
- Additional compatibility
 - 3-wire zone valve
 - Millivolt heating
- Not compatible with 120V/240V line voltage systems

Intelligent features

- Occupancy detection and schedule learning
- Up to 5 remote sensors (1 included)
 - Prioritize occupied rooms for comfort
 - Enhanced occupancy learning
- Automatic display brightness and content
- System learning with early recovery

Professional features

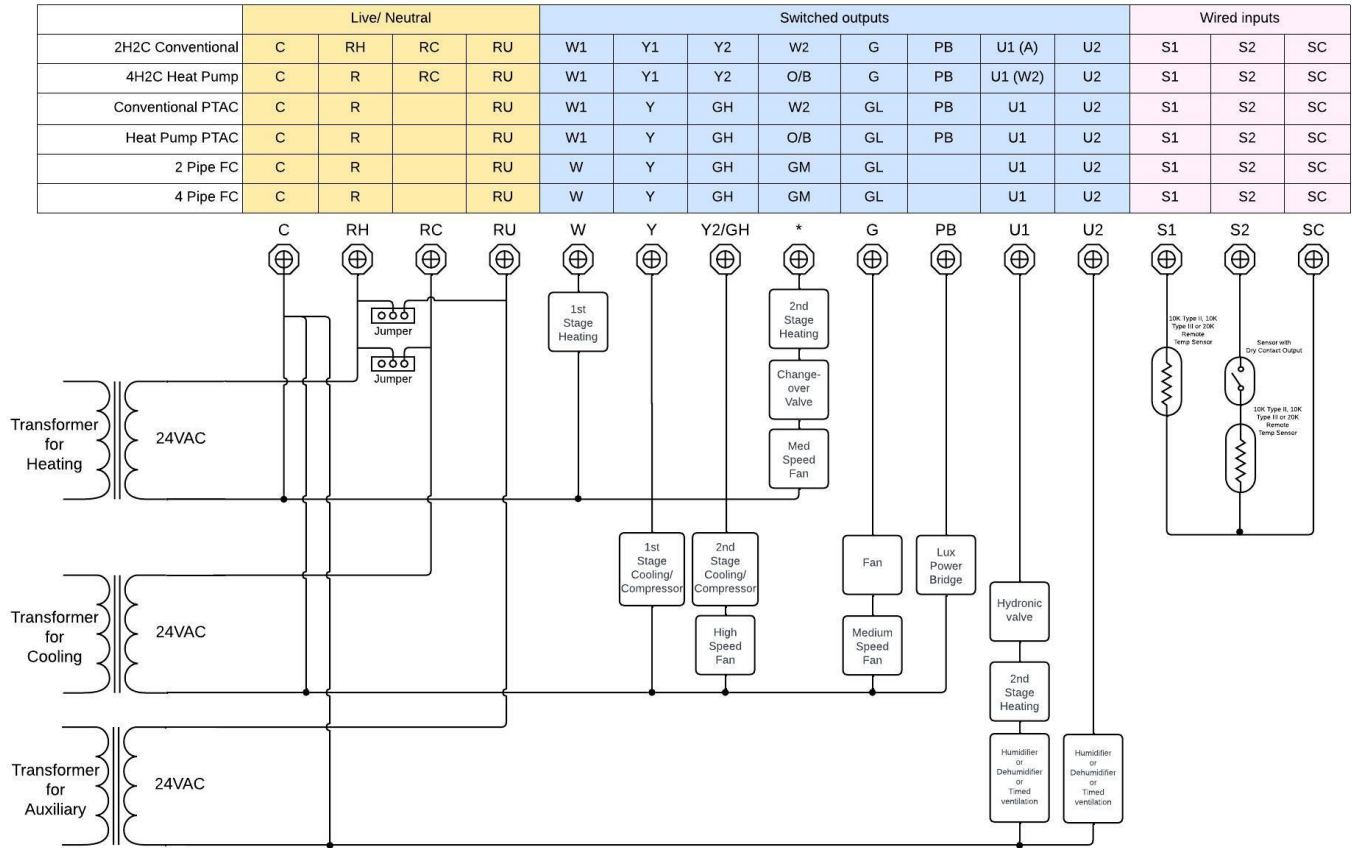
- Keypad lock-out with numeric PIN code
- Installer settable stage 1 swing and multi-stage offset

SPECIFICATIONS



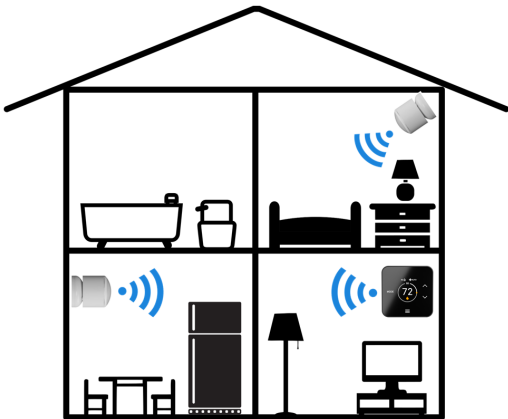
Dimensions	H: 3.5" (90mm), W: 3.5" (90mm), D: 1.1" (28 mm)
Sensors	Temperature $\pm 1^{\circ}\text{F}$ (0.5°C) display resolution mmWave occupancy sensor Relative humidity sensor $\pm 2\%$ accuracy
Wired remote sensor compatibility	Temperature: 10K NTC (Type II or III), 20K NTC Occupancy: NO or NC type
Display	2.4" IPS display (320 x 240 resolution)
Electrical Ratings	Power source: 19-30 VAC @50/60Hz, 40 VA, Class 2 or SELV Output Rating: 1.0A resistive load per terminal, 5.0A resistive load combined total Wire: Solid 18-22AWG, Stranded 20-22 AWG
Power consumption	120mA at 24VAC
Temperature Range	Operating Range: 14°F to 122°F (-10°C to 50°C) Heat Set Range: 45°F to 90°F (7°C to 32°C) Cool Set Range: 60°F to 80°F (15.5°C to 26.5°C)
Environmental Limits	Moisture and Dust: IP20 Humidity: 20% to 95% non-condensing
Certifications	WIFI 802.11 B/G/N-compliant (2.4GHz) Bluetooth 5 Matter 1.4 certified FCC
Packaging	Included: Thermostat, remote sensor, Lux Power Bridge, trim plate [H: 4.7" (120mm) W: 5.9" (150mm)], mounting hardware, instructions Master Carton: 4 Units

Terminal assignment and wiring



- The Lux Power Bridge (“LPB”) is a c-wire replacement system. It requires installation of the LPB at the furnace. The LPB combines the Y and G terminals, ‘creating’ a spare conductor to be used for the c-wire.
- The U1 terminal may be used for either a 3-way valve in hydronic heat systems or 2nd stage heating for heat-pump systems. If it is not being used for heating control, it can be used for auxiliary functions such as humidification, dehumidification or mechanical ventilation control. The U2 valve is always available for auxiliary functions.

Intelligent remote sensors



The TQX works with the most intelligent remote sensors for HVAC and smart-home applications.

Up to 5 TQ remote sensors pair directly with the TQX thermostat allowing complete installation without the use of any central hub or additional smart-phone App. Each remote sensor reports back on changes in occupancy state, temperature and humidity. This allows the TQX to learn how the space is being used in order to save energy when un-occupied and maximise comfort in the occupied parts of the building.

Because the TQX is a Matter bridge, each remote sensor is also individually reported to the Matter smart-home Controller which allows for extensive integration to lighting, security, comfort and other energy saving applications.

Compatible accessories sold separately

Up to 4 additional remote sensors: QSZ-WH-L04