



## Knowledge

Trane's ability to deliver:

- End-to-end reliability with tested, proven applications that are consistent and well-documented to reduce risk
- Factory mounted controls to ensure safe and efficient operation
- Support for the design of the system and the full life of the controls
- Full Intelligent Services toolset for ongoing optimization and energy savings
- Systems built on industry-standard open protocols



## Experience

Controls designed to meet the needs of specific roles and personas providing optimized user-experiences.



Store Manager



**Tracer 10" Display, Occupant Suite App, Tenant UI**

- Set point changes
- Schedule overrides
- After-hours requests



Facility Manager



**Tracer® Synchroty™, Operator Suite App**

- Access to Building Automation System
- Single Building Controls



Maintenance Staff/Building Operator



**Tracer® Ensemble™**

- Access to Building Automation System
- Trends, alarms, energy optimization
- Multiple Building/Enterprise Solution

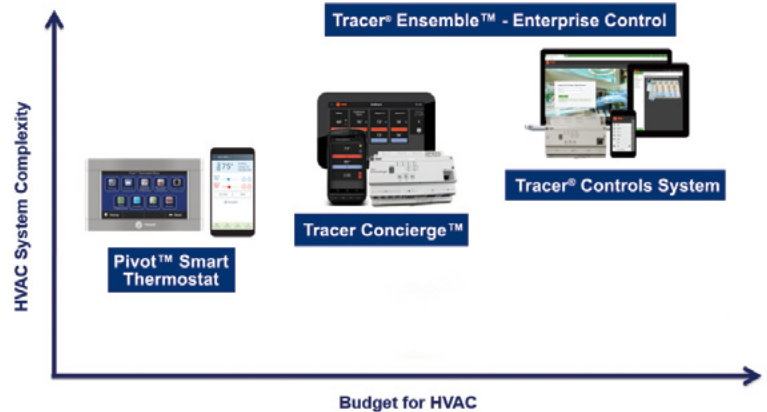


## Performance

Scalable portfolio of building automation and building management solutions meeting the needs of buildings that vary in size, type, and complexity.

- Wireless mesh technology delivers flexibility and reliability for the lifecycle of the building.
- Configurable and programmable controllers deliver performance and flexibility to meet a wide range of applications.
- Modular controller designs optimize the cost and delivery of the system; on time and on budget.

### Portfolio Positioning



## Trane Building Automation Systems



**Tracer® SC+**  
Scalable web-based building automation system solution.



**Tracer Concierge™**  
Light commercial control system.



**Pivot™ Smart Thermostat**  
Wi-Fi & Ethernet thermostat for light commercial applications.

## Trane Air-Fi® Wireless

### Wireless Sensors

Wireless sensing for temperature, humidity, CO<sub>2</sub> & occupancy using BACnet/Zigbee®. Specialty applications include: refrigerator and freezer monitoring using remote sensor range: -25°C - 50°C (-13°F - 122°F). Sensors available with or without displays and set point control.



### Wireless Communications

Wireless system communications leverage Air-Fi Wireless technology to communicate between system and equipment controls.

## Trane Equipment & Unit Controls

### Airside Controllers (UC210, UC400, UC600)

UC210 and UC400: Configurable/programmable BACnet terminal unit controllers for VAV boxes, fan coil units, unit heaters, unit ventilators, water source heat pumps, and blower coils. UC600: Fully programmable controller for commercial self-contained units, air handler control, central plants and custom equipment control.



### Chiller Controllers (AdaptiView with UC800, CH530)

AdaptiView provides 12 in. and 7 in. operator displays to manage alarms, view data and make operational changes.



### Symbio™ 800 Controller

IntelliPak® with Symbio™ 800, multiple protocol support and remote connectivity. Can integrate with BACnet MSTP, BACnet/IP, BACnet/Zigbee, LonTalk® & Modbus® Protocols. Expandable I/O and programmability for custom applications.



## BACnet Communication Interfaces (BCI-I, BCI-R, BCI-C)

Module that enables communication for air handlers, rooftop units and chillers on Trane and non-Trane BACnet MSTP networks. LCI-I, LCI-R and LCI-C modules are also available for LonTalk communication.



## Expansion Modules (XM30, XM32, XM70, XM90)

Add inputs and outputs to SC+, UC210, UC400, UC600, and Symbio 800.



## Communications Devices

Communication Bridges integrate legacy Trane Comm3/4 unit controllers and legacy non-Trane systems to BACnet I/P into Tracer.



## Variable Frequency Drives

Complete range from 1-1/2 to 1350 HP, factory mounted or field installed for new or retrofit applications. BACnet MSTP, LonTalk and Modbus integration interfaces.



## Power and Energy Meters

Easy to install, fully featured, flexible and cost effective power and energy monitoring devices.



## Stand-alone controls

Programmable Zone Sensor for stand alone control of variable speed Trane equipment for RTUs with Reliatel®, and WSHPs, FCUs, BCs, and UVs with UC400s.



## BACnet Communicating Thermostats

Communicating thermostats for controlling RTUs, water-sourced heat pumps and fan coils, and integration into Building Automation systems.



## Equipment Displays

### TD-5

View alarms, data, graphs and make operational changes on Trane equipment. 5 in. display for Reliatel controllers.



### TD7

7 in. display has the added features of custom animated graphics and equipment scheduling for UC600, Symbio 800, and UC800 based air cooled chillers.



## Trane Building Management Systems & User Interfaces



**Tracer® Ensemble™**  
Enterprise level building management software for facility professionals.



**Tracer® Synchrony™**  
Web-based software for building operators.



**Tracer 10" Display**  
Occupant user interface for non-technical user.



**Tracer Mobile Apps**  
Occupant Suite, Operator Suite

## Trane Energy Management Systems and Services

### Trane Intelligent Services

Aggregates data collected in a building. Provides tools to make real-time, near term, and long term decisions that maximize the way buildings are managed and maintained.



### Building Performance

Identifies anomalies to improve comfort, reliability and energy savings.



### Energy Performance

Uses utility data to identify areas where energy intensity can be reduced in the building.



### Active Monitoring

Monitor, triage and dispatch services to respond to BAS alarms.



### Energy Assessment

Helps customers visualize total energy usage from utility's interval smart meter data.



### Secure Remote Access

Secure remote access to control systems; firewall friendly, built on IT standards.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit [trane.com](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

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