

Controls Line Card



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 such as IP, MS/TP, Zigbee®



Experience

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



Store Manager

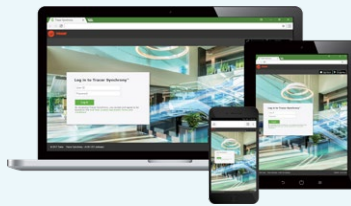


Tracer 10-in. Display, Occupant Suite App, Tenant UI

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



Facility Manager



Tracer® Synchrony™, Operator Suite App

- Access to building automation system
- Single-building controls



**Maintenance Staff/
Building Operator**



Tracer® Ensemble™

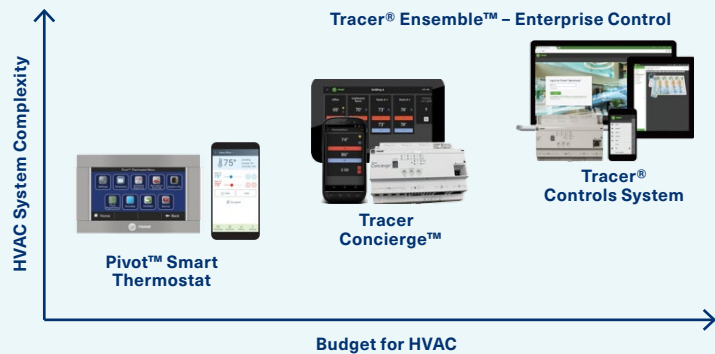
- Access to building automation system
- Trends, alarms, energy optimization
- Multiple building/enterprise solution

Performance

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

- Optional Air-Fi® Wireless provides wireless mesh technology delivering 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.



Symbio™ 800 Controller

IntelliPak® with Symbio™ 800, multiple protocol support and remote connectivity. Can integrate with additional support for LonTalk® & Modbus® protocols. Expandable I/O and programmability for custom applications.



Expansion Modules

(XM30, XM32, XM70, XM90)

Add inputs and outputs to SC+, Symbio 210, Symbio 500, UC600 and Symbio 800.

Equipment Displays



TD7

7-in. display has the added features of custom animated graphics and equipment scheduling for UC600, Symbio 800 and Symbio 500 based air cooled chillers.

Trane Air-Fi® Wireless



Wireless Communications

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



Wireless Sensors

Wireless sensing for temperature, humidity, CO₂ & 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.

More Controls Products



Communications Devices

Communication Bridges integrate legacy Trane Comm3/4 unit controllers and legacy non-Trane systems to BACnet/IP 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 MS/TP, LonTalk and Modbus integration interfaces.



Power and Energy Meters

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



Standalone Controls

Programmable Zone Sensor for standalone control of variable speed Trane equipment for RTUs with Reliate!®, and WSHPs, fan coils, blower coils and unit ventilators with Symbio 500s.



BACnet Communicating Thermostats

Communicating thermostats for controlling RTUs, water-source heat pumps and fan coils, and integration into building automation systems.



Wired Sensors

Full line of wired temperature and CO₂ sensors for applications requiring hard-wiring or where wireless is prohibited.

Trane Equipment & Unit Controls



Airside Controllers

Symbio 210

Airside VAV programmable controller.



UC600

Fully programmable controller for commercial self-contained units, air handler control, central plants and custom equipment control.



Symbio 500

Multi-purpose fully-programmable field- or factory-applied unit controller, standard for Dual Duct and CoolSense® VAV (optional on other configurations), select WSHPs, AHUs fan coils, blower coils, unit ventilators. Includes additional support for Modbus®.



Chiller Controllers

AdaptiView with Symbio 800

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

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-in. Display

Occupant user interface for non-technical user.



Tracer Mobile Apps

Occupant Suite, Operator Suite

Trane Energy Management Systems & Services



Trane Digital 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.



Connected Mechanical Services

Access individual pieces of HVAC equipment, service and manage performance remotely.



Connected Building Services

Access your building, service and manage total system performance remotely.



Intelligent Services

A customized, collaborative and connected approach to manage your building in a way that aligns with your organization's goals.



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 or tranetechnologies.com.

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