



**TRANE**



# *Tracer™ Building Controls*

*Technology for high performance buildings*



# Web based. Easy to use. Simplicity meets sophistication.

Building controls have a bigger job description than they did a few years ago. It's no longer enough to control heating and cooling. Sophisticated buildings require smarter technology that will carry into the future. Tracer™ controls provide the technology platform for the next generation of data-driven, technology-enabled services that are creating high performance buildings.

## Tracer Building Controls

- Tracer™ SC system controller provides a flexible and cost-effective solution for managing your building's HVAC system
- Tracer™ ES building management software provides a web-based, scalable, integration platform for managing all your facilities as a single enterprise
- Tracer™ XT software system provides better insight and optimized control by integrating data from Tracer SC and other industrial control platforms, including those used in data centers and industrial facilities
- Factory-mounted and field-installed equipment controllers are available for virtually any application and building type

## OPEN—Integrate past and present technologies

No need to upgrade your entire facility to take advantage of our more recent controls capabilities. Tracer controls are built on the open BACnet® data communication protocol. The controllers in your facility today may be based on LonTalk (FTT-10), BACnet MS/TP, Modbus, legacy Trane or proprietary protocols, yet they'll integrate seamlessly with Tracer-based systems.

And Tracer controls are designed to simplify integration with emerging technologies, no matter what tomorrow may bring.

## UNCOMPLICATED—Bring clarity to complexity

At every level within the system, Tracer™ building controls provide an intuitive user experience. Built-in graphics and dashboards make it easier to monitor and manage equipment and systems. This simplified user experience helps you achieve greater energy savings and improved operational efficiencies through more effective system management.



## MOBILE—Manage and monitor on the go

Gain new freedom while maintaining a higher level of control. The Tracer™ BAS Operator Suite allows you to operate building systems from virtually anywhere using a tablet or smart phone.



Whether you're down the hall, out in the community or halfway around the world, our mobile app puts the power of Tracer in the palm of your hand.

- Monitor equipment
- Control spaces
- Make setpoint changes
- Manage alarms
- View dashboard graphics

The Tracer BAS Operator Suite works with iPhone®, iPod touch® and iPad® devices with iOS 5 or 6. It also works with Android™ devices.





## FLEXIBLE—Go wireless with no worries

Trane Wireless Comm is compatible with our Tracer products supporting BACnet open protocols and brings greater flexibility to your building automation system. Trane Wireless Comm runs BACnet® protocol on top of ZigBee® Building Automation Standards—and it's ZigBee Certified.



Trane Wireless Comm significantly simplifies building controls projects by minimizing the labor, engineering, estimating and project management tasks associated with communication link and zone sensor wiring, and makes problem solving easier on new buildings, controls upgrades and building expansion projects. By leveraging the advantages of self-healing wireless mesh technology with Trane Wireless Comm's extended signal range and easy installation, the time required to troubleshoot installations can also be reduced when compared to conventional wired systems and competitive wireless systems.

## Easy to use—EarthWise™ Systems and pre-packaged applications

**Tracer™ SC systems feature “built-in” applications**—Preprogrammed features that will quickly become integral to your day-to-day building management.



*Tracer™ SC controller provides an easy-to-use interface via the Web to monitor and control a building from virtually anywhere.*

## Rooftop/VAV systems management—

Allows you to streamline facility management and provides a flexible, efficient and cost-effective solution for maintaining facility climate conditions while minimizing energy and maintenance costs.

**Chiller plant management**—Allows you to manage multiple chillers of multiple sizes and coordinate with other equipment as part of your chiller plant operation for even great energy efficiency and reduced operating costs.

**EarthWise Systems**—Apply integrated design concepts that are optimized for energy and environmental performance; sustainable systems that deliver measureable, repeatable and superior performance at lower operating costs.

## Local service and technical support

Trane delivers building control solutions through our offices around the world. In addition to consultation in system design, construction and commissioning, we can provide local support throughout the life of your building:

- Repair service in case of an emergency
- Maintenance to keep your system operating reliably
- Trane Intelligent Services provides continuous monitoring to maintain performance and avoid costly surprises
- A full line of replacement parts in local inventory
- Available extended service warranties for added protection



*Applications within Tracer™ SC simplify facilities management for buildings with single-zone or VAV systems.*



*Tracer SC™ chiller plant dashboard uses an easy-to-interpret, graphical display to report current operating conditions and energy usage.*

# Tracer™ Building Controls

All Tracer products operate on BACnet® IP and/or BACnet MS/TP communication protocols

## Need smoke control?

The UL864 (UUKL) label is standard on Tracer SC, Tracer UC600 and Tracer UC400 Controllers. These products can be used as part of an engineered smoke control system.

### System Controllers

**Tracer SC™ System Controller**—Manages multiple systems within a building.

- Complete portfolio of building management applications
- Intuitive, web-based user interface with high-quality 3D graphics
- Web-interface for technology-enabled Trane Intelligent Services



### Tracer ES™ Building Management Software—

Provides a web-based solution for managing a single building or multiple buildings from a single interface.

- View status and manage alarms and schedules from one system—from anywhere
- Reports enable enterprise-wide decision making for optimized performance
- Easy integration with other systems via BACnet® IP



**Tracer XT Software System**—Integrates data from multiple systems to provide better insight and optimized control in places where indoor environmental conditions are critical, such as data centers and manufacturing and industrial facilities.

- Communicates with Tracer™ system controllers as well as hundreds of industrial control platforms
- Provides actionable views and analytics that allow you to manage energy wisely and optimize indoor environmental conditions to enhance business results

### Field and Equipment Controllers

#### Tracer™ UC400 Programmable Terminal

**Unit Controller**—Preloaded with standard VAV, fan coils, blower coils or other applications, or fully programmable to meet any specification.

- Single or dual-duct control
- True variable fan and reheat options



UC400

#### Tracer™ UC600 Programmable Controller—

- High performance controller for advanced control applications
- Prepackaged solutions engineered for air handler units, central plants and other HVAC applications
- Flexible and expandable up to 120 points

**Tracer™ TD7 Color Touch Screen Display**—Intuitive graphical user interface for the Tracer UC600. It can serve as a highly adaptable, standalone controls subsystem for air handling units, boilers, cooling towers and chiller plants.

- Displays status, alarms, data logs and animated graphics
- Local schedules and manual override capability
- Suitable for indoor and outdoor use



TD7

#### Tracer™ UC800/AdaptiView™ Chiller

**Control**—Centrifugal chiller control with Adaptive Control™ algorithms.

- Full-color 12-inch touch screen display
- Animated graphics



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