



*Untethered flexibility.  
Unmatched reliability.*

*Trane™ Wireless Comm*



# BAS communication for the future. No strings attached.

Don't let wires tie you down. Trane Wireless Comm brings maximum flexibility to your building automation system.

For contractors, it significantly simplifies building controls projects by minimizing the engineering, estimating and project management tasks associated with communication link. For building owners, it provides easier and more cost-effective controls upgrades and building expansion projects.

## Expand whenever you're ready

Trane technology helps prepare your facilities for the future of building information. Wireless Comm runs BACnet® protocol over ZigBee® Building Automation standards. Adding unit controllers, zone sensors and other devices down the road will be easy and affordable.

## Place sensors where you want them

Wireless zone sensors can be placed virtually anywhere, so they won't detract from your building's historical accuracy or compromise architectural design. The total absence of wires means that sensors can be centrally located on columns, cubical walls...wherever they will detect the true work area conditions.

Wireless Comm technology helps ensure a strong and reliable signal wherever sensors are located. Now you can think beyond the usual wall mount.

## Move devices where you need them

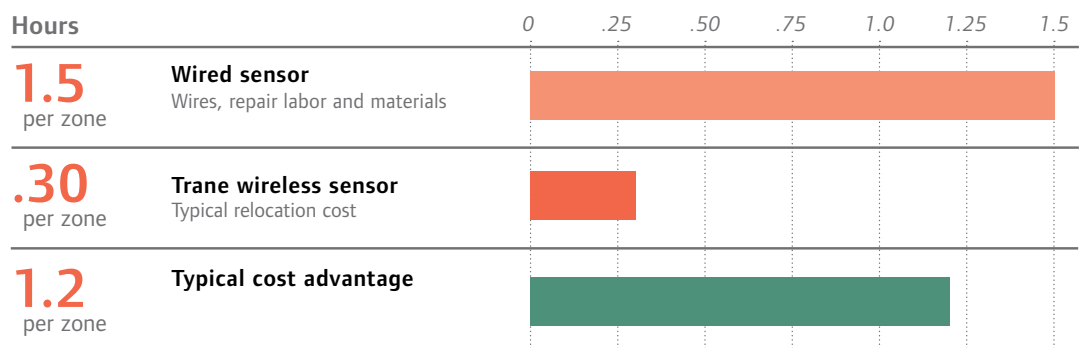
Reconfiguring interior spaces? Is a certain area too hot or too cold? For improved comfort, zone sensors can be moved in minutes, causing minimal cost, damage and disruption. Simply remove the sensor from its current location and remount it in a new location.

Typical delays due to challenging sensor installation conditions, such as concrete or brick walls, can be minimized or eliminated, saving you both time and money.

## Reliable performance

Adherence to ZigBee Building Automation, the global wireless standard for interoperable products, enables secure and reliable wireless monitoring and control over commercial building systems. Wireless Comm also conforms to the IEEE 802.15.4 standard, which ensures that your wireless BAS communication system will reliably coexist with other wireless systems, including Bluetooth® and Wi-Fi™.

## Wired vs. Wireless Zone Sensor Relocation Time Savings

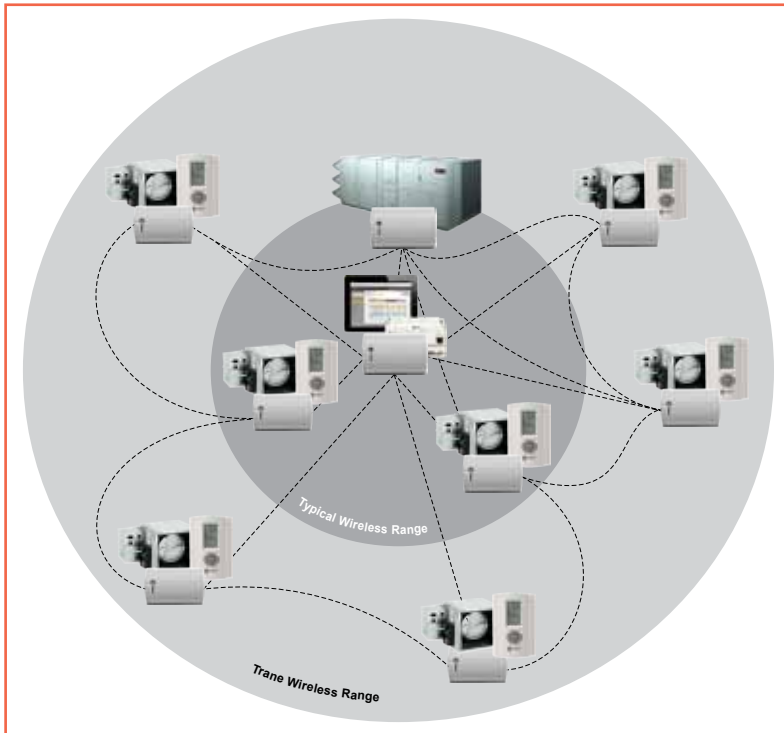


*Actual savings may be greater, based on local labor costs, construction materials and ease of access.*



## Wireless Comm System Reliability

Redundant, self-healing routes between devices



*Wireless Comm reliability is the result of our extended signal range and self-healing mesh technology.*

## Wireless Comm Connectivity



*Trane technology eliminates communication wires between BACnet system controllers, unit controllers, zone sensors and service tools. Wireless Comm conforms to ZigBee building automation standards.*

### Trane Wireless Comm Network

**Wireless Sensors**— A selection of zone sensors adds flexibility wherever you need to monitor and control temperature and change your setpoint, fan or system modes.

**Wireless Comm Interface (WCI)**— Directs communication between zone sensors, terminal equipment and the system controller. Available factory-installed and pre-addressed to improve installation quality.

**Tracer TU Adapter**— provides wireless TU access for customers who prefer to do routine service on their own.



# Gain immediate advantages for your project

## Stability through range and redundancy

Redundant, self-repairing mesh technology maintains wireless communication, even when signals are obstructed. Disrupted signals automatically and immediately reroute around obstacles. This progressive technology eliminates the risks of conventional wired systems, which simply fail when wires are cut or disconnected...or even worse, fail intermittently when damaged or nicked.

With double the range and greater signal strength, Trane Wireless Comm is more reliable than other wireless BAS communications systems. Maximum radio signal strength eliminates the need to install repeaters to spread strong signals throughout your building, simplifying installation and helping to improve your bottom line.

## Discover more as time goes on

For new construction and retrofits, Trane Wireless Comm is the most practical and reliable wireless BAS communication network available. It's a dependable solution for most healthcare facilities, schools, offices and industrial buildings. It can also help overcome retrofit difficulties and excessive costs in existing buildings, making upgrades feasible.

## Fast installation

Trane wireless technology contributes to on-time, on-budget project completion.

- Seldom need to conduct a pre-installation site survey in most buildings.

- Seldom need to install repeaters or additional hardware to ensure a strong signal throughout the building.
- Wire-free systems reduce installation time, minimizing workplace interruptions.

## Less risk

Wireless Comm eliminates the root sources linked to most quality problems.

- Wire-free communication extends throughout the entire BAS network.
- Self-healing, redundant signal paths prevent communication loss.
- Maximum signal strength assures reliable data transfer at a longer range.
- Addressing and labeling devices within our factory assures proper installation.
- System security is ensured through compliance with AES 128-byte encryption.

## Low long-term cost

A Wireless Comm network will prove its value as a cost-effective solution over and over again.

- When reconfiguring spaces, the cost to relocate zone sensors is nearly eliminated.
- The industry-standard technology platform assures easy, affordable integration of future innovations.

For more information, visit [Trane.com](http://Trane.com)

*BACnet is a trademark of ASHRAE.*

*ZigBee is a registered trademark of ZigBee Alliance.*

*Wi-Fi is a trademark of Wi-Fi Alliance.*

*Bluetooth is a registered trademark of Bluetooth SIG.*



Ingersoll Rand (NYSE:IR) advances the quality of life by creating and sustaining safe, comfortable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Schlage®, Thermo King® and Trane® — work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; secure homes and commercial properties; and increase industrial productivity and efficiency. We are a \$14 billion global business committed to a world of sustainable progress and enduring results.



[trane.com](http://trane.com) [ingersollrand.com](http://ingersollrand.com)