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Trane Introduces Air-Fi Wireless Technology for Building Controls

Air-Fi improves reliability, simplifies installation and provides greater flexibility

St. Paul, Minn., March 24, 2015 – Trane, a leading global provider of indoor comfort solutions and services and a brand of Ingersoll Rand, now offers [Air-Fi](#)™ wireless technology for building controls. Air-Fi wireless replaces the need for wired building controls, allowing installations to be completed quickly with less disruption to occupants in existing buildings, while also providing greater reliability, simplified installation and more flexibility as building spaces change.

Many building owners face challenges connected to maintenance and repair with traditional wired building controls systems, which fail when wires are cut, disconnected or damaged. Air-Fi can help optimize any building's performance with less risk, thanks to self-repairing mesh technology that features redundant signal paths to help prevent communication failures. Trane offers a typical 200-foot indoor signal range, with up to four times the number of paths, extending up to half-mile when unobstructed for even greater levels of signal reliability.

With a battery life that is three times what other system providers offer, the lifetime battery* eliminates the need to replace batteries over the life of the system in most installations and saves time and money.

"Trane Air-Fi is a reliable, flexible solution that frees building owners from the hassles associated with traditional wired systems for building controls. Air-Fi offers easy problem solving, efficient performance and cost savings over the life of the equipment," said Dave Molin, vice president of control products for Trane North America. "Trane understands that building owners want a system that works as expected from day one and continues to provide reliable performance for years down the road."

*Based on typical indoor operating conditions.

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Air-Fi is a ZigBee® Certified Building Automation solution, and the system is built on a platform that supports BACnet® open standards. This allows customers to integrate devices in the future when the building expands or changes. Wireless sensors are easy to move or replace, as needed, to resolve issues related to sensing accuracy, aesthetics or reconfigured spaces.

Trane Air-Fi wireless also conforms to the IEEE 802.15.4 standard, so customers get a wireless BAS communication system that reliably coexists with other wireless systems, including Bluetooth® and Wi-Fi® — without interference. There's no security risk with Air-Fi, which uses a separate, secure network from those used by a building's IT system. Air-Fi secures building automation networks by the use of AES-128 encryption, keys and device authentication.

The Trane Air-Fi interface is available factory-installed and addressed to expedite installation and reduce labor and upfront costs. It also ensures higher installation quality that results in better building performance for customers because the work is done in a controlled environment, making it more repeatable and consistent.

To learn more about Trane Air-Fi wireless technology, visit www.trane.com/AirFi.

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About Ingersoll Rand and Trane

Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands — including [Club Car®](#), [Ingersoll Rand®](#), [Thermo King®](#) and [Trane®](#) — work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$13 billion global business committed to a world of sustainable progress and enduring results. Trane solutions optimize indoor environments with a broad portfolio of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced control. For more information, visit www.ingersollrand.com or www.trane.com.

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