

Room Automation Solution



Innovative integrated room solutions

The power behind **your mission**





Room Automation Solution communicates seamlessly with building automation systems (BAS) through KNX[®] protocol for smarter, more sustainable buildings

Overview

With Room Automation Solution, Johnson Controls provides a sustainable and versatile solution based on KNX[®], a communication protocol for smart building networking, and Johnson Controls Metasys Building Automation System (BAS). The application possibilities are extensive – including office buildings, schools, universities, hotels and apartment buildings.

Room Automation Solution can be configured with the manufacturer-independent engineering software ETS[®]. The potential to expand an existing solution and operation with products from other manufacturers make Room Automation Solution a universal choice for integrated, energy-efficient building automation.

Performance characteristics

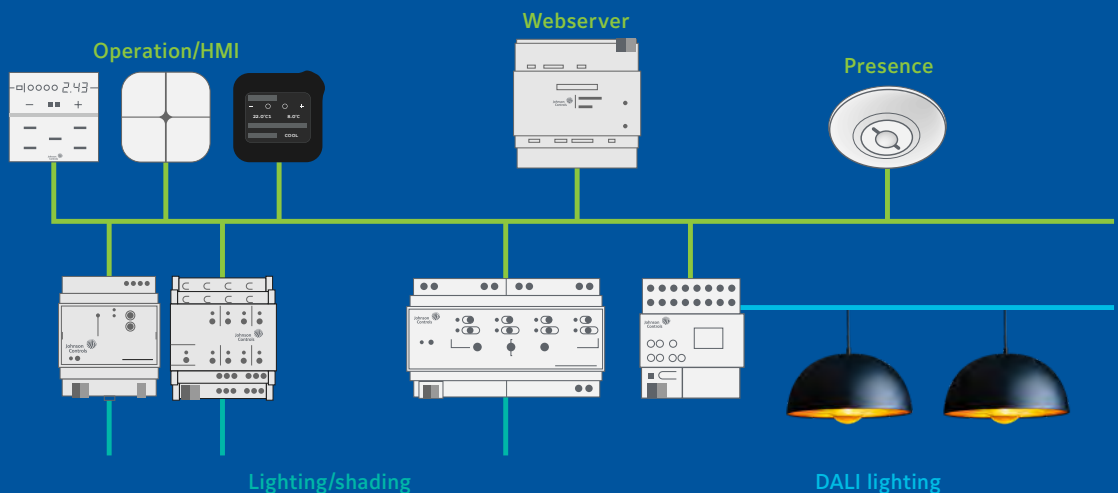
- Open platform for versatile applications
- Investment security through standardized and future-oriented technology
- Can be expanded at any time and combined with existing KNX installations
- Complete integration into the Metasys building automation system

Innovative applications

- Situation-dependent lighting and shading, also available with DALI actuators (ECG)
- Demand-based air conditioning, including temperature, humidity, air quality and presence
- Reliable access control and presence detection
- Modern and intuitive operating concepts

Smart room automation

Johnson Controls components for room automation combine state-of-the-art design with efficient construction and provide extensive functions with each device. They can be flexibly combined with each other and offer a standalone implementation for sophisticated room automation.



Components for room automation

Extensive possibilities

A deep breadth portfolio of various I/O interfaces and internal sensors are available for each device, paired with an extensive number of communication objects and connection options.

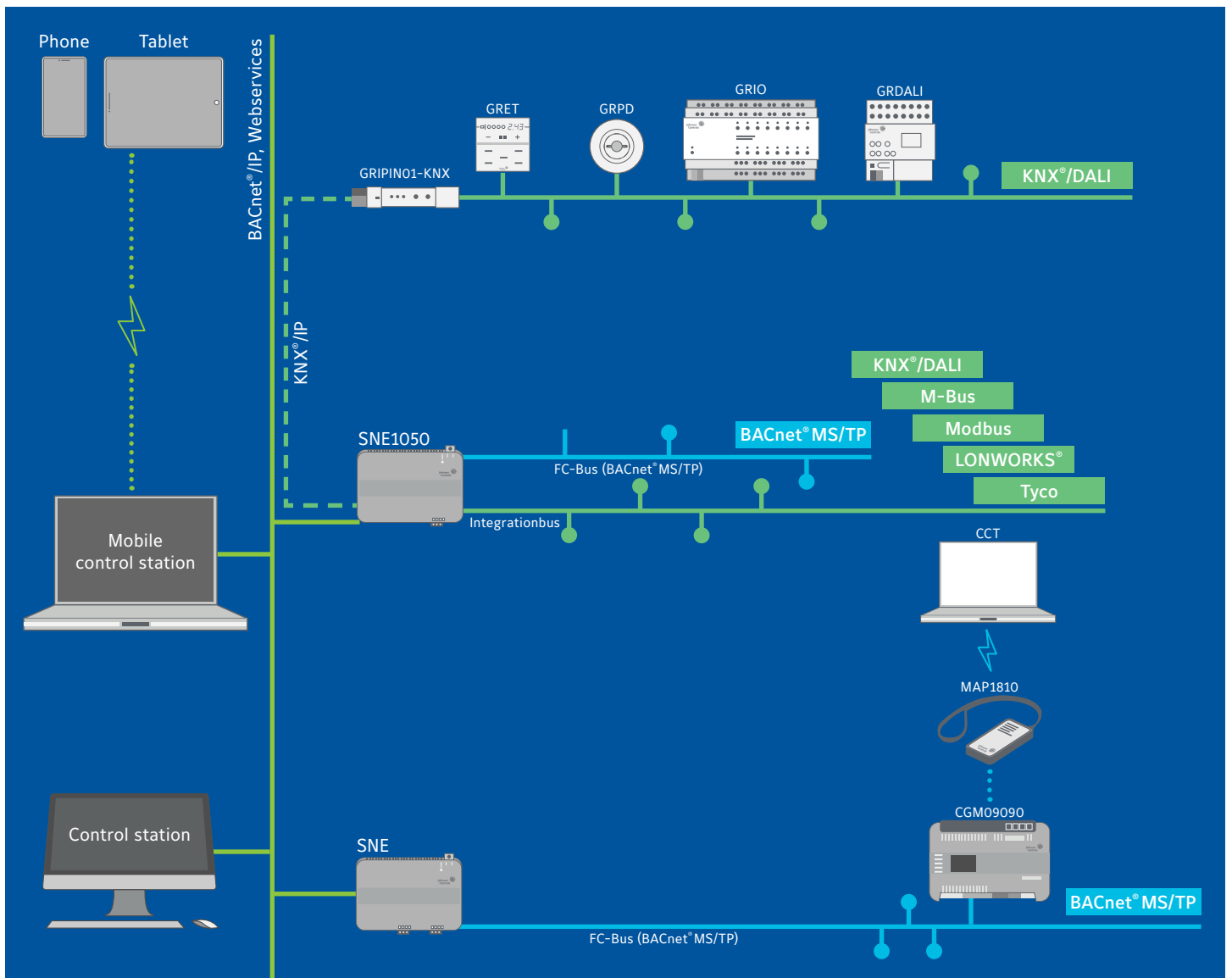
Additionally usable and freely configurable software functions offer maximum flexibility in the implementation of complex tasks.

Powerful integration to Metasys

Room Automation Solution on automation level is available for seamless connection in Metasys. With it, KNX group addresses can be mapped bidirectionally to Metasys data points.

The Metasys engines can independently access all KNX information via the Metasys network and integrate it into their applications:

- Setpoint specification for room control
- Comprehensive switching functions for lighting and shading
- Presence detection for demand-based air conditioning
- Mapping of KNX addresses to BACnet™ objects
- Detection of limit violations
- Trend display of measured variables



Components for integrated room automation

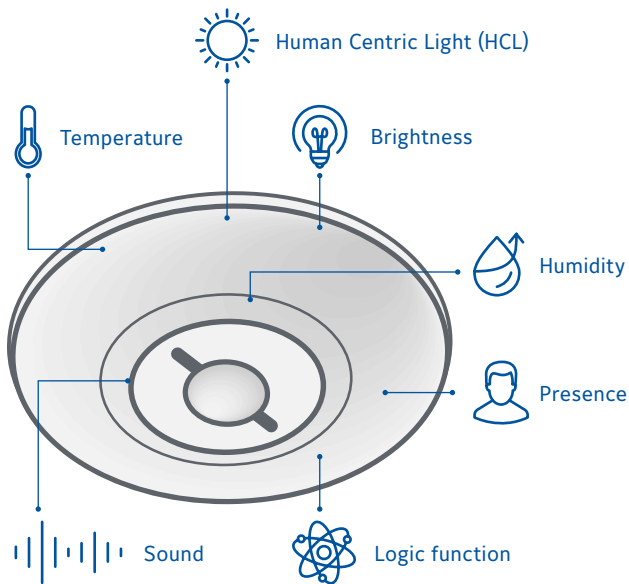
DALI gateway

With KNX DALI gateway, the integration of a wide variety of lighting systems into room automation is quick and easy.

The gateway offers extensive configuration options for each DALI channel and integrated DALI commissioning support in the device. The gateway is fully integrated into the engineering software ETS.

MultiSensor: first-class presence detection

The Room Automation Solution Multi Sensor is an all-around high-quality device that can be used for many tasks thanks to built-in sensors for light, temperature, humidity, presence and noise.



- Presence detection with setpoint specification
- Illuminance detection and brightness control
- Lighting color adjustment (HCL)
- Virtual card holder function for access control
- Complete room control, including all HVAC functions

Thanks to a wide detection range and the possibility of adding additional detection units, even angled rooms can be optimally detected.

Modular room control concept

Capacitive control elements with high-quality glass surfaces ensure an adaptable and visually appealing design that supports the simple implementation of individual and project-specific control concepts.



Multifunctional controls with application-specific icons

Integrated access control

With programmable RFID transponders, a user-friendly access control system is available that is suitable for hotels and apartment buildings as well as in education and administration.

The detection devices communicate within the KNX network in order to be able to directly trigger the activation of automation functions for the respective room.

This contributes significantly to increased energy efficiency, as energy can be saved when the room is not in use.

About Johnson Controls

At Johnson Controls (NYSE:JCI), we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

Building on a proud history of more than 135 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, with a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.

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