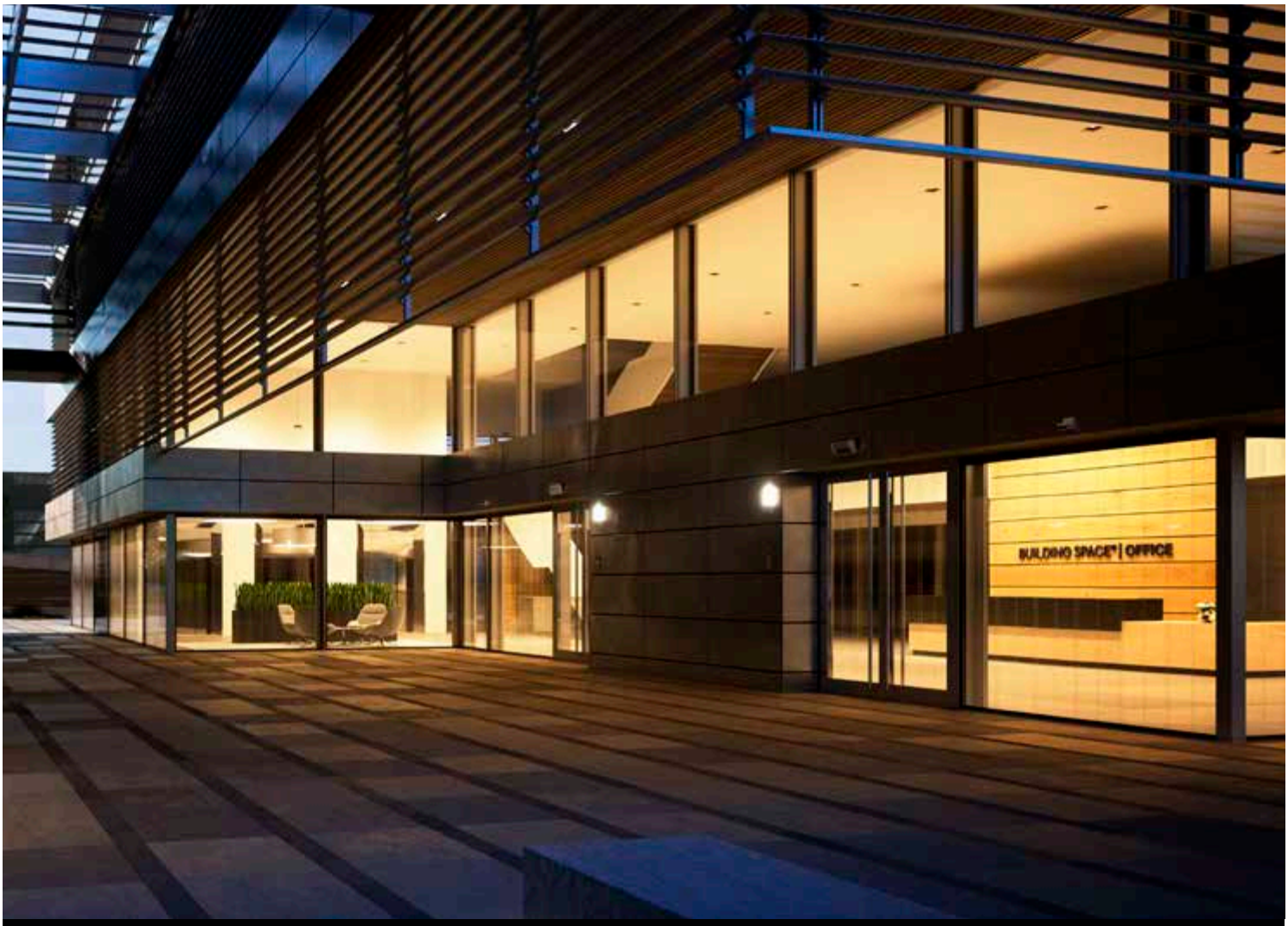


Building Space® | Smart Building

KNX in commercial buildings
Light + Building 2016

Power and productivity
for a better world™

Connecting KNX to IP networks
New ABB i-bus® KNX IP Devices

The new range of ABB i-bus KNX IP devices, consisting of IP interface and IP router, can be used in all applications in which KNX shall be interfaced to IP networks.
The IP interface is especially suitable for connecting visualization systems and ETS software to the KNX bus. Therefore it features 5 tunneling servers which allow up to 5 IP clients to simultaneously build up a connection. The IP router can additionally be used as fast line and area coupler for KNX installations and provides 5 tunneling servers.
Both devices can be powered via a separate 12 – 30 V DC power supply or via Power over Ethernet (PoE), saving space in the distribution board. Furthermore, the new range supports the ABB i-bus Tool which significantly facilitates the installation and commissioning.

Benefits:

- 5 Tunneling Server available, simultaneous usage of interface / router with up to 5 IP clients (PC, Smartphone, Tablet) enabling cost savings and additional comfort for end users
- Power supply via PoE is supported (IEEE 802.3af Class 1), no additional 12 V – 30 V DC power supply is needed in distribution board if PoE switch is used
- ABB i-bus Tool for IP discovery and FW update available facilitating installation and commissioning
- Standard multicast communication in IP router can be switched to unicast, allowing usage in IT networks in which multicast communication is not permitted

Further information:
http://bit.ly/1TtUtz3

Description	MW	Type	Order code	Price 1 pc. €	Pack unit pc.	Weight 1 pc. kg
IP-Router	2	IPR/S 3.1.1	2CDG110175R0011		1	0.11
IP-Interface	2	IPS/S 3.1.1	2CDG110177R0011		1	0.11

Precise and safe
The new ABB i-bus® KNX Analogue Actuators

With the Analogue Actuators 4-fold for DIN rail mounting and 2-fold in a housing for surface mounting, ABB presents two new ABB i-bus KNX devices. The Analogue Actuators convert KNX telegrams in voltage or current signals.

These analogue output signals are used to influence regulatory processes. For example, devices for heating, air conditioning or ventilation applications can be adjusted in their operation depending on the information, which are transmitted via the bus system.

Benefits:

- Worldwide usage through wide range voltage input
- Precise control through improved accuracy of outputs
- Simplified installation by galvanic isolation of mains supply and control outputs
- Simplified commissioning, diagnostics and maintenance through integration in ABB i-bus Tool

The new Analogue Actuators are available as of July 2016.

Analogue Actuator 2-fold in a housing for surface mounting.

Description	MW	Type	Order code	Price 1 pc. €	Pack unit pc.	Weight 1 pc. kg
4-fold, MDRC, 0 – 10 V, 0 – 20 mA	4	AA/S 4.1.2	2CDG110202R0011		1	
2-fold, SM, 0-10 V	–	AA/A 2.1.2	2CDG110203R0011		1	

Simply logical
The new ABB i-bus® KNX Logic Controller ABA/S 1.2.1

With the new ABB Logic Controller ABA/S 1.2.1 system integrators can quickly and flexibly deal with the most challenging project requirements – with a maximum of design freedom. That is because the logic controller can easily and reliably accommodate altered or extended functionality requests during construction or usage of buildings. The Logic Controller comes in a newly developed housing for mounting on a DIN rail enabling easy dismounting without the necessity for a tool.

What makes the device so compelling is not just the graphical programming interface in the ETS software environment. It comes also with a comprehensive library of functions to control all building applications. The library includes solutions for heating, ventilation and climate control. The installation of extra software is not necessary. Another benefit is the innovative technology. The device uses state-of-the-art and energy-efficient microcontroller technology.

Furthermore, the system comes with a simulator function. Using simulation the system integrator is able to make sure that the logic controller performs all commands correctly before commissioning the device on the project's site.

Adjusting the settings later – according to a possible changed building usage – is easy and cost-effective for the system integrator. Thus the Logic Controller is a reliable companion for KNX system integrators to successfully implement their projects.

The new Logic Controller is available as of September 2016.

Benefits:

- Maximum design freedom for KNX system integrators by easily extending functionality during a building's construction and usage
- Graphical programming interface in ETS software environment without the need to install additional software
- Comprehensive library of functions for all typical building applications
- Inbuilt simulator facilitates efficient and reliable commissioning on the project's site. All functions can be tested before going live
- Newly developed housing enabling dismounting on DIN rail without any tools

Description	MW	Type	Order code	Price 1 pc. €	Pack unit pc.	Weight 1 pc. kg
	4	ABA/S 1.2.1	2CDG110192R0011		1	

Wireless monitoring of windows and doors
Magnetic Contact EnOcean

The new magnetic contact EnOcean is a wireless device mounted on windows and doors recognizing opening and closing. Using the EnOcean wireless standard does not require any battery or supply voltage – the power is supplied by inbuilt solar cells.

When using the ABB KNX/EnOcean gateway, the signal strength can be easily measured with the ABB i-bus Tool, which facilitates the installation.

Benefits:
- Easy mounting on window or door frame either via screwing or adhesive
- Fully self-supplied via integrated solar cell, no wires need to be run to the contact
- Quick and easy configuration with ABB i-bus KNX/EnOcean gateway since the signal strength can be measured with the ABB i-bus Tool
- Less than 2 hours light per day at 200 Lux required to ensure continuous operation, more than 90 hours operation without any light

Description	MW	Type	Order code	Price 1 pc. €	Pack unit pc.	Weight 1 pc. kg
	–	MKE/A 1.868.1	2CDG120048R0011		1	0.1

Wirelessly controlling valves in retrofit applications
Valve Drive EnOcean

The new Valve Drive EnOcean SE/K 1.868.1 supports the efficient control of the room climate in residential and commercial buildings. It is a proportional valve drive controlling heating or cooling valves and communicates wirelessly via the EnOcean standard with, for example, KNX room thermostats. Therefore, no wires need to be run to the valve facilitating energy efficient temperature control – especially in retrofit applications. The battery supply warrants a maintenance free operation for four years. Additionally, a clear display provides the current target temperature and informs about errors and alarms.

When using the ABB i-bus KNX EnOcean Gateway, the signal strength of each connected valve drive can be easily measured, facilitating the installation and warranting a reliable operation.

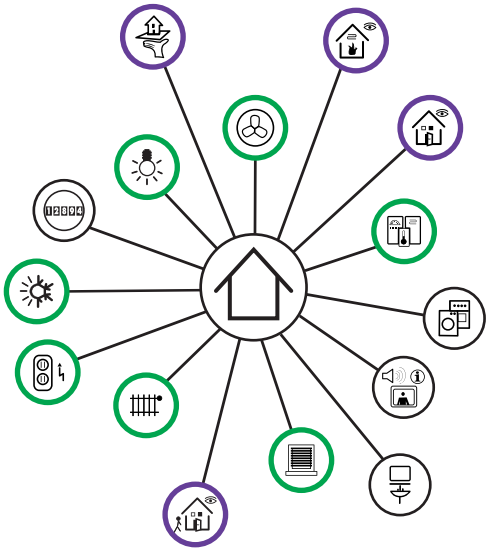
The EnOcean Valve Drive will be available as of May 2016.

Benefits:

- Easy mounting on valve bases without the need to run any wires
- Display indicating the current set point temperature and alarms
- Set point temperature can be easily adjusted directly at the valve drive
- Quick and easy configuration with ABB i-bus KNX EnOcean Gateway by measuring the signal strength of each connected valve drive with the ABB i-bus Tool
- Less maintenance due to four years battery life time

Description	MW	Type	Order code	Price 1 pc. €	Pack unit pc.	Weight 1 pc. kg
	–	SE/K 1.868.1	2CDG120051R0011		1	

Security and comfort in its simplest form
ABB i-bus® KNX Security Panel



Professional alarm system for KNX experts

With the new KNX Security Panel GM/A 8.1, ABB presents the first security system that is compatible with both the international KNX standard (14543-3-x ISO / IEC) and the international standard for alarm systems (ISO / IEC 62642). Therefore the KNX Security Panel GM/A 8.1 is ready for worldwide usage and expands business opportunities of nearly 40,000 KNX partners in 124 countries. The new system is the perfect solution for projects ranging from simple to high security requirements.

This innovation is the result of more than 30 years of system and application knowledge in alarm technology and building automation at ABB.

Further information:

http://bit.ly/1TtUvH2

Security and comfort in its simplest form
ABB i-bus® KNX Security Panel

KNX Security Panel without cover, integrated zone modules and batteries

Ethernet connection for programming, diagnostics and operation via a standard web browser

Direct inputs for security sensors

Keypads

Internal, external or remote alarming

Security bus for security sensors, zone modules and setting devices

KNX interface to display alarm states via building automation displays and to control automatic building functions with support of security sensors.

A complete product portfolio: One system – all interfaces

To fulfill the project requirements ABB provides the user, in addition to the new panel and keypad, a complete product portfolio for professional alarm technology as well as known solutions for all trades of KNX building automation.

The KNX Security Panel is for universal usage for all kinds of hazardous situations in buildings like intrusion, personal attack, smoke, gas- and water leakage.

The KNX Security Panel provides all needed system interfaces: An ethernet connection is used for programming, diagnostics and operation via a standard web browser as well as integration into the building network. The security sensors will be connected directly to the panel inputs or via the security bus, where the setting device for the system is also connected. Furthermore the panel provides interfaces for the newly developed keypads and for internal, external or remote alarming. Finally the integrated KNX interface allows on the one hand to display alarm states via displays of building automation and on the other to control automatic building functions with support of security sensors.

Building Space® | Office
The integral solution for modern office buildings

The commercial and industrial building market is a very dynamic environment. Building owners and operators need to optimize energy consumption, decrease operational and maintenance costs, so that building occupants benefit from comfort, security, and lower utility bills. And with local and federal regulators introducing more energy codes and standards means that building automation becomes more important than ever.

Every building has unique requirements, therefore, the Building Space portfolio is tailored to your specific needs. From office buildings to exclusive luxury hotels, our innovative solutions provide the flexibility in designing and implementing Building Space solutions that adapt easily to individual needs. Moreover, your investment is secured for future modifications and extensions, especially when the building is to be used for a different purpose.

The world of business is evolving at a rapid pace. Today, we no longer work in rigidly defined surroundings – smart building solutions give us more and more freedom. Thanks to the intelligent control of light, air-conditioning and security, it also strikes a healthy balance between human needs and energy efficiency. These impressive new ideas can be discovered in detail online.

Further information:
http://new.abb.com/buildings/office

Building Space® | Hotel
Discover the virtual hotel of the future

In this hotel ABB showcases beautifully crafted solutions that work in harmony with leading architecture and interior design. This hotel demonstrates how comfort and energy efficiency work hand in hand, underlining ABB's commitment to power and productivity for a better world.

This unique, virtual hotel application allows customers easily to discover the ABB solutions in the areas of low voltage, drives and motors and power products and to learn more about the range of their possibilities. The tour at the hotel takes you through the entrance and lobby to a floor, a suite, a guest room and the restaurant.

Further information:
http://new.abb.com/buildings/hotels

Contact

Further Information and Local Contacts:
www.abb.com/knx

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