Room Automation Solution Guest Room Management Product Bulletin

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Introduction

Guest Room Management products are part of the Johnson Controls® Room Automation Solution. Guest Room Management products include access control software, key cards, transponders, bedside panels, and door panels.

Product list

- GRTR-J0x-KNX
- GRTH-J0x-KNX
- GRTPE-J02-KNX
- GRTC-B-J0x
- GRTKH-B-J01
- GREBPx-J0x-ACC
- GRESCDPJ0x-KNX
- GREPES2CHJx-ACC
- GRSW-xxx-KNX

Contact your Johnson Controls sales representative to order a product listed in Table 6.

Features and benefits

GRTR-J0x-KNX transponder reader with plexi support frame

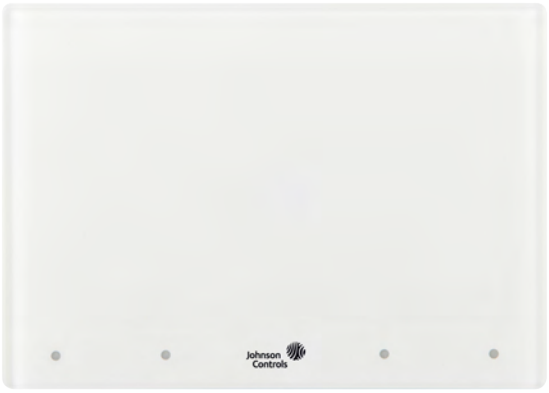
The transponder reader GRTR-J0x-KNX is an EIB/KNX® wall mounting device suitable for access control applications. Use the device in any kind of building, for example, hotel, hospital, offices, or parking, where you require an access control application. The device contains two binary inputs (dry contacts) that you can use to control the door status or other signals from external switches or contacts, for example, windows, bathroom emergency alarms. The transponder reader also includes two output relays that you can use for general purposes, to open the door or turn on the courtesy light inside the room.

On the front of the device, four LEDs light up four icons to display the following states, for example, in the case of hotel management:

- SOS request
- Service call
- Client status: Busy room or Do not Disturb

You can configure the LEDs and icons in association with other alarms or events. The transponder reader can reads cards or keys at a maximum distance of 30 mm from the front side.

Figure 1: GRTR-J01-KNX transponder reader



Product features

- 2 dry-contact, binary inputs
- Two output relays
- Four customizable, LED state display icons
- Reads cards or keys at a maximum distance of 30 mm from the front side

Technical specifications

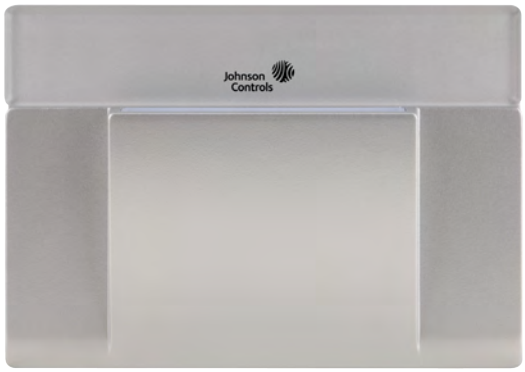
Table 1: GRTR-J0x-KNX technical specifications

Specification	Description
Dimensions (H x W x D)	78 mm x 110 mm x 37 mm
Mounting	In-wall mounting on squared or round boxes, diameter 60 mm
Connections	Input and output screw clamps, conductor section maximum 1.5 mm²
Power supply	From bus KNX 21 VDC to 30 VDC SELV Supplementary 12 V to 24 V AC or DC ± 10% 150 mA maximum
Input features	2 type ON or OFF clean contacts Maximum length of connection cable: 10 m
Output features	Number 2 with capacity of the contact relay: 24 VAC or DC 2 A AC1
Control elements	1 red LED for ETS programming Frontal signalling 1 LED: access denied or allowed 3 LED: freely configurable

GRTH-J0x-KNX transponder holder with plexi support frame

The transponder holder GRTH-J0x-KNX is an EIB/KNX wall mounting device suitable for access control applications. Use the device to detect and monitor the presence of guests or service staff in a room. The device contains two binary inputs with dry contacts that you can use to control the door status or other signals from external switches or contacts, for example, windows, bathroom emergency alarms. On the front of the transponder holder, there is a blue LED to help the guest to insert the card in the device. When you remove the card, after a programmable time, the device switches off all room services to preserve energy.

Figure 2: GRTH-J01-KNX transponder holder



Product features

- Two dry-contact, binary inputs
- Programmable time setting disables services in empty rooms to help save energy
- LED indicator on device directs card inserts

Technical specifications

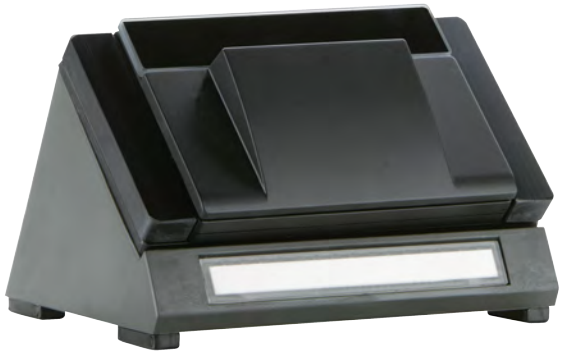
Table 2: GRTH-J0x-KNX technical specifications

Specification	Description
Dimensions (H x W x D)	78 mm x 110 mm x 37 mm
Mounting	In-wall mounting on squared or round boxes, diameter 60 mm
Connections	Input and output screw clamps, conductor section maximum 1.5 mm²
Power supply	From bus KNX 21 VDC to 30 VDC SELV Supplementary 12 V to 24 V AC or DC ± 10% 150 mA maximum
Input features	2 type ON or OFF clean contacts Maximum length of connection cable: 10 m
Output features	Number 2 with capacity of the contact relay: 24 VAC or DC 2 A AC1
Control elements	1 blue LED for card guidance 1 button for ETS programming

GRTPE-J02-KNX transponder encoder

The transponder encoder is a device that reads and writes RFID tag. The device is surface-mounted on a 3-modules special box, equipped with a USB interface that also provide the on or off supply. Use the device driver to set up read and write functionality.

Figure 3: GRTPE-J02-KNX transponder encoder



Product features

- Single USB interface and on or off supply
- Driver provides quick installation and setup

Technical specifications

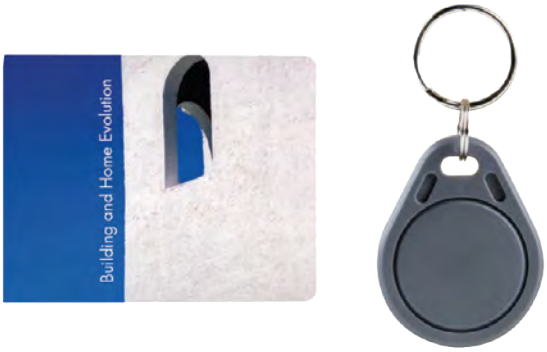
Table 3: GRTPE-J02-KNX technical specifications

Specification	Description
Dimensions (H x W x D)	87 mm x 142 mm x 107 mm
Mounting	Place on desk
Connections	USB Type A
Power supply	PC USB: 5 V to 150 mA
Communication	USB 1.1

GRTC-B-J0x transponder card and GRTKH-B-J01 key holder

Use these transponder cards to interact with applicable access controls products.

Figure 4: GRTC-B-J0x and GRTKH-B-J01 transponder card and key holder



Product features

Transponder card:

- Complies with ISO 7810 standards
- Serigraphy possible on both sides, on request
- Dual technology version, RFID, and magnetic stripe on request

Key holder:

- Material: ABS
- Frequency: 125KHz
- Temperature: -10°C to 50°C

Technical specifications

Table 4: GRTC-B-J0x and GRTKH-B-J01 technical specifications

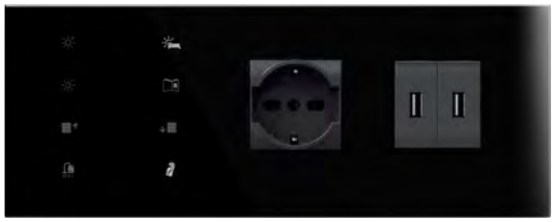
Specification	Description
Dimensions (H x W x D)	**Transponder card:** 85.6 mm x 54 mm x 0.76 mm
	Key holder: 38 mm x 34 mm x 6 mm

GREBPx-J0x-ACC custom bedside panel plate

The KNX switch range consists of two, four, six, eight, or 10 channels (2-modules version) or four, eight, or 10 channels (3-modules version) capacitive buttons. Configure each button to manage on or off commands, dimming, shutters and venetians controls, scene recall and control, or objects sequences. The device includes a 2-stage room temperature controller with an integrated Proportional Integral (PI) controller to control heating and cooling equipments, valves, and 2 and 4-pipes fan coils. The device contains an embedded temperature sensor and a rear 2-poles connector that you can configure as digital or analog input.

Connect an additional NTC temperature probe to perform a direct temperature measurement. The range contains an RGB LED bar on the front to visualize feedback or other values available over the KNX bus, function available on the RGB range. The devices are available in two ranges: standard and custom. It is possible to use glasses in the custom version to light up custom and interchangeable icons that match with the associated function. The KNX range is mounted in a 2 or 3-modules box, compliant with main standards, British, German, and Italian. The device contains the KNX communication interface.

Figure 5: GREBPx-J0x-ACC bedside panel plate



Product features

- 2-stage room temperature controller with integrated PI to control heating and cooling
- Embedded temperature sensor and rear 2-poles connector, configurable for digital or analog inputs
- NTC direct temperature sensor compatibility. Requires additional NTC probe, not included (GRTE-SEN or GRTE-SEN-2).
- LED visual feedback
- Compliant with British, German, and Italian mains on or off standards
- KNX communication interface
- Custom device version includes customizable icon and function matching

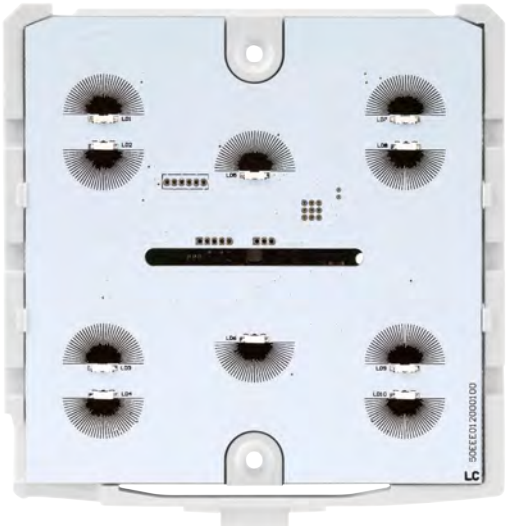
Note: Order the electronics, sockets, and USB connection separately.

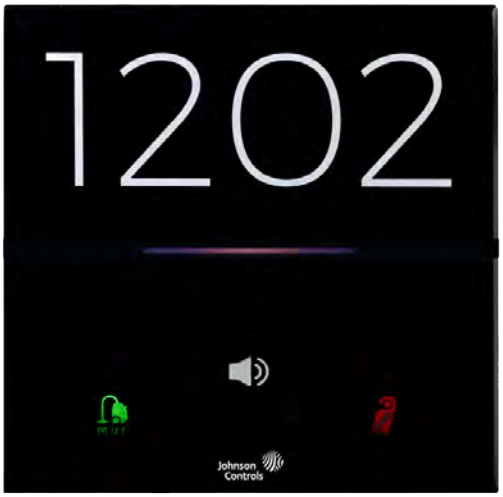
GRESCDPJ0x-KNX electronic door panel and GREPES2CHJx-ACC door panel cover

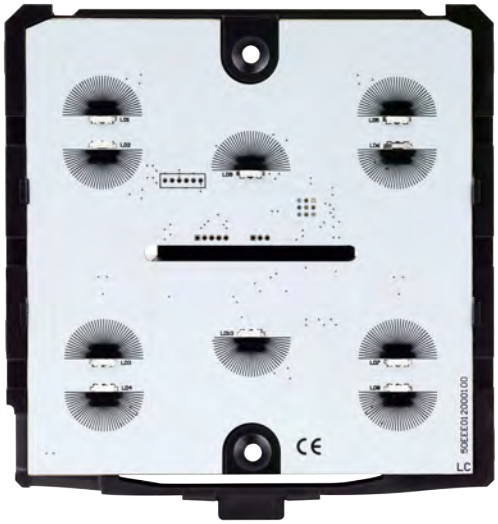
The KNX capacitive door panel is a capacitive switch with an RGB LED bar. Use it in combination with the glass covers, available in black or white. Order these cover glasses in a specific version for the required application. The upper part of the glass can have a personalized, back-lit room number, the lower part provides a key for the bell function, one for the 'do not disturb' function (DND), and one for the 'make up room' function (MUR). Two other customizable buttons are available on request. The device includes a 2-stage room temperature controller with integrated PI to control heating and cooling equipments, valves, 2 and 4-pipe fan coils.

The device contains an embedded temperature sensor and a rear 2-poles connector that you can configure as digital or analog input. Connect an additional NTC temperature probe (GRTE-SEN or GRTE-SEN2, not included) to perform a direct temperature measurement. The device contains an RGB LED bar on the front in order to visualize feedback or other values available over the KNX bus, function available on the RGB range. The KNX range is mounted in a 2 or 3-modules box, compliant with main standards British, German, or Italian. The device contains the KNX communication interface.

Figure 6: GREBPx-J0x-ACC electronic door panel and door panel covers







Product features

- 2-stage room temperature controller with integrated PI to control heating and cooling
- Embedded temperature sensor and rear 2-poles connector, configurable for digital or analog inputs
- NTC direct temperature sensor compatibility. Requires additional NTC probe (GRTE-SEN or GRTE-SEN2, not included).
- LED visual feedback
- Compliant with British, German, and Italian mains on or off standards
- KNX communication interface

Technical specifications

Table 5: GRES technical specifications

Specification	Description
Dimensions (H x W x D)	96 mm x 96 mm x 36 mm
Weight (with glass)	130g (220g)
Power supply	Through bus EIB/KNX cable: 21 V to 32 V DC
Rear input, digital mode	For free potential contacts, dry contacts: Maximum length of connecting cable: ≤ 10 m, twisted cable Voltage scanning 3.3 V DC, internally generated
Rear input, analog mode for temperature probe	For NTC temperature probe JC code: GRTE-SEN, range from -20°C to 100°C (-4°F to 212°F) GRTE-SEN-2, range from -50°C to 60°C (-58°F to 140°F) Maximum length of connecting cable: ≤ 20 m, twisted cable

GRSW-xxx-KNX JSuite software

Use the dedicated JSuite software for hotel management, for the supervision of KNX environments, and to access control and alarms. The software can interface with a Building Management System. Manage remote clients through Wi-Fi or ethernet. The package is available with an embedded PC that includes two clients.

Figure 7: GRSW-xxx-KNX JSuite software

Product features

- Supervise a number of rooms and common areas according to the installed license
- Control client workstation according to the installed license
- Unlimited profiling privileges
- Use KNX functions for timing events
- Generate KNX groups of objects
- Automatically import objects available from ETS KNX
- Automatically back up data
- Use filters to search event logs available
- Export data into CSV, XLS, or DOC formats
- Connect to the bus using Falcon library
- Product Management Systems (PMS) connection

Related documentation

Refer to the related guides and manuals for details on how to install and operate the products.

Repair information

If a product fails to operate within its specifications, replace the unit. For replacements, contact your Johnson Controls representative.

Ordering information

Contact your Johnson Controls sales representative to order a product listed in the following table.

Table 6: Selection chart

Product order code	Description
GRTR-J01-KNX	Transponder reader with plexi support frame, white
GRTR-J02-KNX	Transponder reader with plexi support frame, black
GRTH-J01-KNX	Transponder holder with plexi support frame, white
GRTH-J02-KNX	Transponder holder with plexi support frame, black
GRTPE-J02-KNX	Transponder encoder USB, black
GRTC-B-J01	Transponder card, white, 50 pieces
GRTC-B-J02	Transponder card, white, 250 pieces
GRTKH-B-J01	Transponder key holder, 50 pieces
GREBPR-J01-ACC	Custom bedside panel plate, 2 sockets, right white
GREBPR-J05-ACC	Custom bedside panel plate, 2 sockets, right black
GREBPL-J01-ACC	Custom bedside panel plate, 2 sockets, left white
GREBPL-J05-ACC	Custom bedside panel plate, 2 sockets, left black
GRESCDPJ01-KNX	Capacitive switch door panel, white
GRESCDPJ05-KNX	Capacitive switch door panel, black
GREPES2CHJ1-ACC	Door panel, 2 CH, white, and RGB
GREPES2CHJ5-ACC	Door panel, 2 CH, black, and RGB
GRSW-40-2C-KNX	Embedded PC with software, up to 40 rooms, full package, 2 clients
GRSW-100-2C-KNX	Embedded PC with software, up to 100 rooms, full package, 2 clients
GRSW-150-2C-KNX	Embedded PC with software, up to 150 rooms, full package, 2 clients
GRSW-UL-2C-KNX	Embedded PC with software, over 150 rooms, full package, 2 clients
GRSW-AC-KNX	Additional client
GRSW-SWI-KNX	Interface to management

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls shall not be liable for damages resulting from misapplication or misuse of its products.

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable end-user license, open-source software information, and other terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Patents

Patents: https://jcipat.com

Single point of contact

APAC	Europe	NA/SA
JOHNSON CONTROLS	JOHNSON CONTROLS	JOHNSON CONTROLS
C/O CONTROLS PRODUCT MANAGEMENT	WESTENDHOF 3	507 E MICHIGAN ST
NO. 32 CHANGJIJANG RD NEW DISTRICT	45143 ESSEN	MILWAUKEE WI 53202
WUXI JIANGSU PROVINCE 214028	GERMANY	USA
CHINA		

Contact information

Contact your local branch office: www.johnsoncontrols.com/locations
Contact Johnson Controls: www.johnsoncontrols.com/contact-us

Virtual branch

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