

Introduction

Touch panel products are part of the Johnson Controls® Room Automation Solution. Touch panel products include touch panels, switches, and minipads.

Product list

- GRTP-J0x-KNX
- GRTS
- GRCS
- GRSP-2M-J0x
- GRMPxCHJ1TS-KNX

Contact your Johnson Controls sales representative to order a product listed in Table 5.

Features and benefits

GRTP-J0x-KNX touch panel

Use the GRTP-J0x-KNX touch panel to control lighting, shutters, and timers. The GRTP-J0x-KNX touch panel contains powerful control in a distinctive shape, available in three colours. The GRTP-J0x-KNX touch panel contains a coloured display to control dim, status, values, lights, shutters and timers, and is password-protected when necessary. Use the embedded temperature sensor to manage chrono or fancoil control functions. Control DMX coloured LEDs or lights with the optional DMX interface, and load control with automatic cut-off of prioritised functions performed with the available power meter. Based on Linux® OS but ETS programmed, the 3.5 in. touch panel has LED indicators for status display and an audio signal for alarm functions.

Figure 1: GRTP-J02-KNX touch panel



Product features

- Password protection
- Load control with an automatic cut-off of high priority functions

Additional features

- Optional DMX interface to control LEDs or lights

Technical specifications

Table 1: GRTP-J0x-KNX technical specifications

Specification	Description
Dimensions (H x W x D)	112 mm x 110 mm x 48 mm
Weight	250 g
Power supply	Auxiliary supply: 9 VDC to 32 VDC Current consumption: 55 mA at 24 VDC From KNX bus: 21 VDC to 31 VDC SELV Current consumption from KNX < 5 mA
Mounting	In-wall box: 2 or 3-module Italian, German box, Swiss box
Connections and terminals	Wago red or grey to connect to EIB/KNX bus Wago white or yellow to connect to auxiliary supply

GRTS switch

GRTS is a KNX tactile 4-channel button that you can configure to manage on or off commands, dimming, shutters and venetians control, scene recall and control, or sequences of three objects. The device includes a 2-stage Room Temperature Controller with integrated PI to control heating and cooling equipment, valves, 2-pipe and 4-pipe fan coils. The device has a rear 2-pole connector configurable as digital or analog input. Connect a NTC temperature probe (GRTE-SEN or GRTESEN-2, not included) to have a direct temperature measurement. The switch has a RGB LED bar on the front side to visualize feedback or other values available over the KNX bus. Use the GRTS in a British box, German box, or Italian 2-module box. The device has a KNX communication interface.

Figure 2: GRTS switch



Product features

- 2-stage room temperature controller with integrated PI to control heating and cooling
- Embedded temperature sensor and rear 2-pole connector, configurable for digital or analog inputs
- NTC direct temperature sensor compatibility, requires additional NTC probe (GRTE-SEN or GRTE-SEN-2, not included)
- LED visual feedback
- KNX communication interface

Technical specifications

Table 2: GRTS technical specifications

Specification	Description
Dimensions (H x W x D)	55 mm x 55 mm x 37 mm
Weight	50 g
Power supply	From KNX bus 21 VDC to 32 VDC Current consumption EIB/KNX < 10 mA
Mounting	In-wall box: 2 or 3-module
Connections	Rear input in digital mode or analog input for temperature probe

GRCS miniswitch

The GRCS button range of KNX devices includes three different models based on the number of switches. The product has buttons that you can configure to manage on or off lights, dimmers, shutters, scenarios, sequences of commands. It has LEDs on the front side, two for

each button, configure each LED by ETS, one white and one blue for each button. The device includes a communication interface with the bus type TP1 twisted pair, KNX European standard, according to CEI EN 50090.

Figure 3: GRCS miniswitch



Technical specifications

Table 3: GRCS technical specifications

Specification	Description
Dimensions (H x W x D)	45 mm x 43 mm x 42 mm
Weight	50 g
Power supply	Through bus EIB/KNX cable: Voltage: 21 VDC to 30 VDC or current consumption EIB/KNX: ≤ 5 mA
Output	Number: 2 or 8 LEDs Colors: white and blue
Connections	2 terminals for connections bus

GRSP-2M-J0x miniswitch accessories

Socket plate, two modules.

Figure 4: GRSP-2M-J0x miniswitch accessories



GRMPxCHJ1TS-KNX minipad

The GRMP minipad has four or eight buttons, that you can configure to manage lights, dimmers, and shutters. When the minipad has four inputs on the back, the inputs can interface with free potential contacts, for example, sensors or buttons. The minipad has five white LEDs in the front side, each LED is configurable by ETS, and you can configure the included temperature sensor as a room thermostat.

Figure 5: GRMPxCHJ1TS minipad



Product features

- ETS configurable LEDs
- Includes temperature sensor that users can configure as a room thermostat

Technical specifications

Table 4: GRMPxCHJ1TS-KNX technical specifications

Specification	Description
Dimensions (H x W x D)	90 mm x 90 mm x 48 mm
Weight	130 g
Power supply	From EIB/KNX bus 21 VDC to 31VDC
Inputs	4 inputs for free potential contacts; maximum cable length: 10 m Scanning current or voltage < 1 mA or 3.3 VDC
Outputs	5 white LEDs

Related documentation

Refer to LIT-12013601 (*GRTS4CHJ0x-KNX Switch 4 channels + Thermostat*) 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 5: Selection chart

Product order code	Description
GRTP-J01-KNX	3.5" touch panel KNX, ceramic white
GRTP-J02-KNX	3.5" touch panel KNX, matte black
GRTP-J07-KNX	3.5" touch panel KNX, square plexy white
GRTP-J09-KNX	3.5" touch panel KNX, square plexy black
GRTS4CJ01-KNX	KNX switch 4 channels + thermostat 55 mm x 55 mm, white, plastic
GRTS4CHJ02-KNX	KNX switch 4 channels + thermostat 55 mm x 55 mm, black, plastic
GRTS-CP-J01	Plastic plate 55 mm x 55 mm, white
GRTS-CP-J02	Plastic plate 55 mm x 55 mm, black
GRCS1CHJ03-KNX	Miniswitch, 1 channel, KNX, anthracite
GRCS2CHJ03-KNX	Miniswitch, 2 channels, KNX, anthracite
GRCS4CHJ03-KNX	Miniswitch, 4 channels, KNX, anthracite
GRCS1CHJ01-KNX	Miniswitch, 1 channel, KNX, white
GRCS2CHJ01-KNX	Miniswitch, 2 channels, KNX, white
GRCS4CHJ01-KNX	Miniswitch, 4 channels, KNX, white
GRF-2M-J02	2 modules 60 mm, frame, black
GRC-2-BOX	In-wall box, 2 modules
GRMP4CHJ1TS-KNX	KNX minipad 4 channels, 4 IN, temperature sensor complete, white with a black cross
GRMP8CHJ1TS-KNX	KNX minipad 8 channels, temperature sensor complete, white with a black cross
GRSP-2M-J01	Socket plate 2 modules, white
GRSP-2M-J02	Socket plate 2 modules, black

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://jciapat.com>

Single point of contact

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

Contact information

Contact your local branch office: www.johnsoncontrols.com/locations

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