GVS

To make life smart, and smart simple

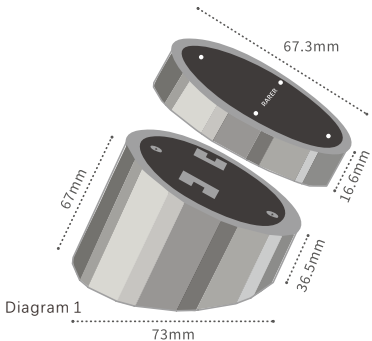## KNX Remote Controller User Manual

CE KNX (TP) [S]

Introduction

▶▶ he R Series remote controller seamlessly integrates the KNx Remote Controller (transmitter) with the KNxconverter.BT (receiver), eliminating the need for a central host and complicated network configurations. By relying solely on the standard KNX communication protocol, it achieves stable and efficient local intelligent control. With the advanced ETS programming software, users can easily customize personalized control schemes tailored to their needs, whether in residential, commercial, office, or industrial environments, offering unprecedented convenience and flexibility.

▶▶ At the heart of the R Series remote controller is a minimalist yet elegant 4-button design, supporting various interaction modes and featuring LED backlight indicators. This not only meets users' demands for intuitive control but also provides unlimited creative possibilities for professional commissioning. Whether it's lighting adjustment, shading control, environmental temperature and humidity management, or switching complex scene modes, the R Series KNX rotary remote controller handles it all effortlessly, delivering unparalleled comfort and luxury to your automated living experience.

67.3mm
67mm
16.6mm
36.5mm
73mm

Diagram 1

Transmitter Selection

KNX Rotary Remote Controller - Transmitter Terminal
KNX Remote Controller

Model / Features	R01	R02	R03
Specifications			
Buttons	4 keys + rotary knob		
Installation	Desktop / Desktop & Wall-mounted		
Dimensions	R01: Ø67 mm × H66.5 mm R02: Ø74.8 mm × H67.7 mm R03: Ø74.8 mm × H17.8 mm		
Button Lifespan	10,000 presses		
Charging Voltage	DC5V(Type-c)		
Charging Time	1 hour		
Standby Time	720 hours (lab data)		
Transmission Range	8 meters (line of sight; subject to actual site conditions)		
Protection Level	IP20		
Operating Temperature	0℃~40℃		
Transport Temperature	-20℃~60℃		
Storage Temperature	-20℃~60℃		

Selection of Reception

Receiver Selection
KNX Rotary Remote Controller - Receiver Terminal
KNX Converter. BT

Model / Features	KNX Converter. BT
Appearance	
Communication	KNX to Bluetooth
Installation	86 base box or ceiling-mounted
Dimensions	L52mm*W45mm*H13mm
Power Supply Voltage	DC 21–30V (KNX red/black)
Bus Current	30mA/30V
Programming Software	ETS software
KNX Programming	Physical button on receiver
Bluetooth Button	No operation required
Transmission Range	8 meters (line of sight; subject to actual site conditions)
Protection Level	IP20
Operating Temperature	0℃~40℃
Transport Temperature	-20℃~60℃
Storage Temperature	-20℃~60℃

Product Features

The KNX Rotary Remote Controller is designed with simplicity and ease of use, enabling users to quickly adapt to its operation. The buttons and rotary knob support a variety of functions, including short press and long press actions.

Button Design
Equipped with 4 independent buttons, each of which can be assigned to different functions, such as: Lighting control、Curtain control、Custom device control.

Dimming and Color Adjustment
The remote supports light dimming and color adjustment, allowing users to create different ambiances by adjusting brightness and color temperature.

Scene Settings
A single button press can trigger coordinated actions across multiple devices, simplifying the activation of pre-configured scenarios.

Custom Settings
1-byte customization: Supports up to 4 cycles of transmission.
2-byte customization: Also supports up to 4 cycles of transmission.

One-touch curtain operation
Support long press and short press operation curtain, Short press can open/close/stop.

The knob supports the following functions
 (accessed by double-clicking the button to enter rotary mode):
1-bit control: On/Off functions.
4-bit control: Brightness or temperature adjustment.
1-byte control: Volume, brightness, or curtain control.
2-byte control: Color temperature or temperature regulation.

Off-line Control
The KNX remote control also supports offline control, allowing users to control smart home devices even in the absence of a network.

Warranty

Dear Valued Customer,Thank you for choosing GVS's KNX Rotary Remote Controller products. Products purchased through official channels are entitled to the Three Guarantees Service as stipulated by national regulations.

Warranty Terms
1.Within 7 days of purchase,if a performance failure occurs, the consumer may choose a refund, replacement, or repair.
2.Within 15 days of purchase, if a performance failure occurs, the consumer may choose a replacement or repair.
3.Within 1 year of purchase, if a performance failure occurs, the consumer may opt for free repair services.
4.Post-warranty period, consumers can opt for paid repair services for performance failures.

Exclusions from Warranty Service
The following circumstances are not covered by the warranty: damage caused by human actions、no valid invoice and three guarantees voucher、Damage or failure caused by force majeure, etc

User Information (to be filled out by the customer)
Name:
Phone:
Address: Province/City:
Purchase Date:
Invoice Number:
Retailer Name:

Product Information and Maintenance Records
Product Name:
Product Model:
Repair Description:
Date of Submission:

Product Quality Certification

Qualification Card

(PASS)

Important Information

Before installing and using this product, please read this manual carefully and follow the operational guidelines to ensure reliable product **performance.**

1.Professional Installation Required Installation and commissioning of this product must be carried out by trained personnel.

2.Product Quality Assurance This product is manufactured in accordance with the latest technical standards and has passed quality tests before leaving the factory.
For additional information or assistance with issues not covered in this manual, please contact the manufacturer.

3.Prohibited Actions Do not modify or repair this product without prior authorization and support from the manufacturer.

1.Liability Disclaimer
The manufacturer shall not be held liable for damages caused by improper use or failure to follow the instructions in this manual. Responsibility rests with the user/operator.The KNX Rotary Remote Controller is powered by a lithium battery.Use a Type-C cable for charging the rotary controller. The knob red light starts when charging, The green light on on full charge.

Package Contents

1.KNX Remote Controller × 1
2.KNXConverter.BT × 1
3.Type-C Data Cable × 1

Installation Diagram

❖ Rotary Remote Controller Transmitter Terminal (Applicable for R01/R02/R03)
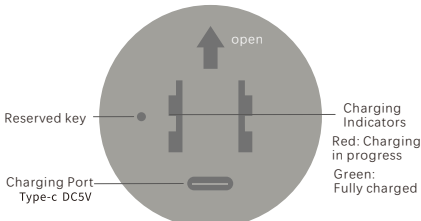(KNX Remote Controller)

open
Reserved key
Charging Indicators
Red: Charging in progress
Green: Fully charged
Charging Port
Type-c DC5V

Diagram 2
Back View of the Rotary Section Base (Applicable for R01/R02/R03)

close
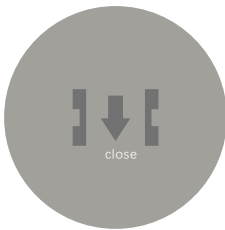
Diagram 3
Base Protrusion Features (Applicable for R01/R02)

55mm
2mm
45mm
2.6mm
Screw Holes M2.5 countersunk screws
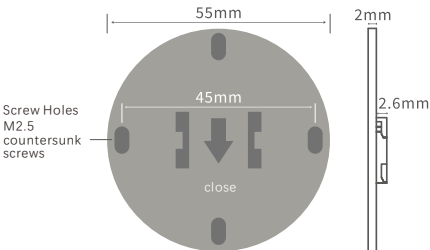close

Diagram 4
Wall-Mount Protrusions (Applicable for R03)
Side View

Installation Diagram

Button 1
Button 4
GVS
Button 2
Bottom right
Bottom left
Button 3 knob part
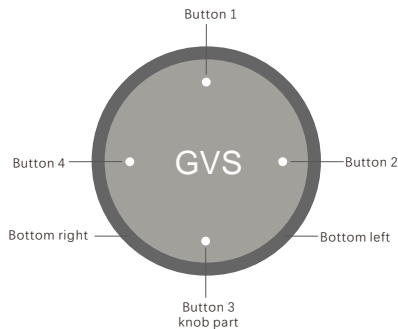
Diagram 5

❖ Wiring Diagram
KNX Terminals: Black/Red

45mm
13mm
52mm
KNX Remote control receiver Front view
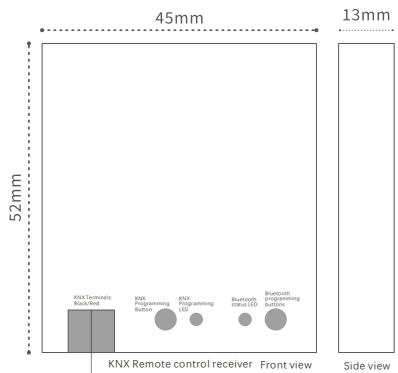Side view

Diagram 6 J-Y(ST)2*2*0.8
KNX The bus is connected to the intelligent system
Color to color

Programming Instructions

Programming Instructions
1. Select the corresponding ETS project file and import it into the ETS software.
2. Add the device to the project created in the ETS software.
3. Press the programming button on the device. Use the ETS software to assign and download the physical address.After the download is complete, the red LED indicator will turn off.
4. Open the device database in the ETS software.Configure the parameters and perform an application download.
5. Chang the physical address, repeat Step 3.
6. After updating parameter settings, repeat Step 4 to implement new functionality.

The knob remote control receives the terminal key indicator light
KNX programming LED: red light is often on for programming mode, red light out for programming mode, red light flashing is missing ETS application need to download ETS application. Bluetooth status LED green is connected, green out for no power supply, green light slow flash for the sending terminal and receiving terminal dislink.

The knob remote control sends the terminal button indicator light
The key function itself backlight like diagram5; Knob function knob and the corresponding key function middle LED light synchronous synchronously;
Knob Figure 2 The red light is on, and the green light is on when fully charged.