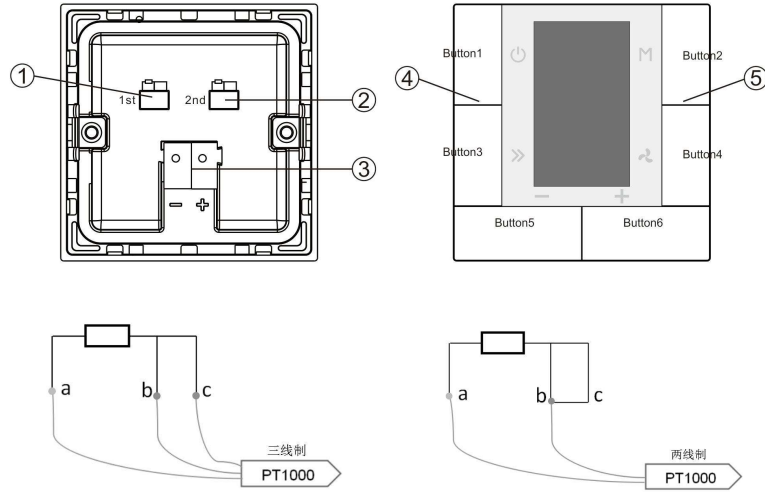# K-BUS®

Technical Sheet
For KNX Multifunctional Thermostat, 55mm

CHTPB-04/00.1.00
CHTPB-04/00.2.00
CHTPB-04/00.2.01

CE KNX

The worldwide STANDARD for home and building control

DESCRIPTIONS

CHARACTERISTICS

●Panel operation block function.

●HVAC thermostat function: Heating and Cooling, and up to three fan speeds control.

●Air conditioner function: supply IR Split Unit and Gateway Integrate control type.

●Floor heating function: adopt two-point control mode, and with 5 scenes.

●Ventilation system control: support inlet and exhaust control, and with 5 scenes.

●Switch sensor function: switch, dimming, blind, value output and scene control.

●4 Event Group functions, and 8 outputs for per Event Group.

●8 Logic functions, with AND, OR, XOR, Gate forwarding, Threshold comparator and Format convert

●Built-in temperature sensor

●With two PT1000 temperature sensor input interfaces.

① 1st PT1000 temperature sensor input interface

② 2nd PT1000 temperature sensor input interface

③ KNX/EIB bus connection terminal

④ Program LED position, Red LED for assigning the physical address. And Button 1 and Button 6 press simultaneously to enter programming mode.

⑤ Internal temperature sensor position

Note:

The 1st PT1000 and 2nd PT1000 terminals can connected with the three-wire or two-wire PT1000 temperature sensor（as Wiring Diagram）. For two-wire PT1000 sensor, the two pins on the right side of the terminal need be connected together. And due to the line resistance, the measured temperature value may not be accurate for two-wire PT1000.

PARAMETERS

Bus supply	Bus voltage	21-30V DC，Via KNX bus
	Bus current	<12mA
	Bus consumption	<360mW
Connection	EIB/KNX	Bus connection terminal
2ch PT1000 inputs	Connect two three-wires/two-wires PT1000 temperature sensor ,	Cable length <2m
PT1000 sensor	Range and accuracy	－9.9°C ... + 80°C;±1℃
Temperature sensor	Range and accuracy	－9.9°C ... + 80°C;±1℃
Installation	In a conventional 60 mm wiring box or 86 mm wiring box	
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	–25 °C ... + 70 °C
Environment	Humidity	<93%,except condensation

INSTALLATION FIGURE

The KNX Multifunctional Thermostat, 55mm can be installed in a conventional 60 mm wiring box or 86 mm wiring box. It requires only EIB / KNX bus powered. It is available to assign the physical address and set the parameters by Engineering design tools ETS with .knxprod (higher than edition ETS4). Must ensure that the device operation, testing, detecting, maintenance correctly.

Thermostat should be installed approximately 120~140cm above the floor and 15~20cm from the door frame.

Thermostat should not be installed near a radiator or behind curtains

Thermostat must not be exposed to direct contact with liquids.

Temperature regulation will also be affected by exposure to heat from electrical appliances and direct sunlight on the Thermostat.

DIMENSIONS
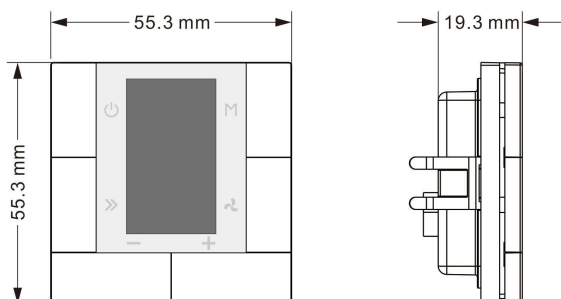
Model	Dimension	Weight
CHTPB-04/00.x.0y(x=1,2;y=0,1)	55.3 x55.3 x 19.3 mm	0.05kg

IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

●Protect the device against moisture, dirt and damage during transport, storage and operation!

●Do not operate the device outside the specified technical data (e.g. temperature range)!

Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.