K-BUS®

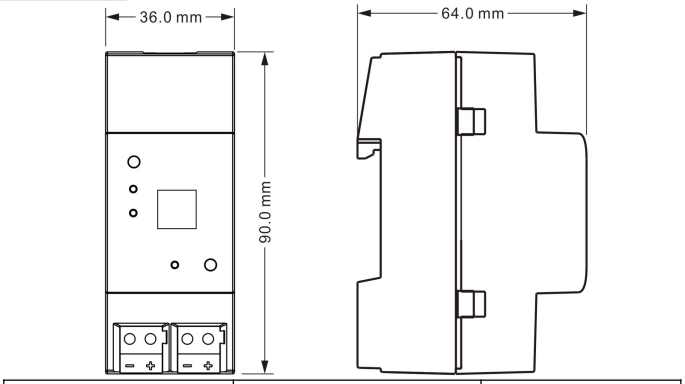
Technical Sheet For KNX Gateway for Tuya ZigBee

BTMO-TY/00.1(2)
BTMO-TY/00.3(4)

CE

The worldwide STANDARD for home and building control

DIMENSIONS



Model	Dimension	Weight
BTMO-TY/00.1(2) BTMO-TY/00.3(4)	36 × 90 × 64mm	0.15kg

CHARACTERISTICS

●As a ZigBee Gateway function, it can connect to Tuya Cloud, and add ZigBee device to the cloud

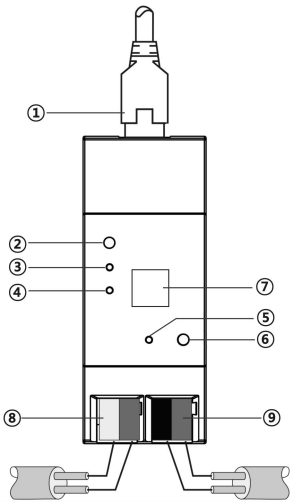
●Support uploading KNX devices to Tuya platform for management, to control KNX device and display status

●Support KNX devices functions, including Switch, Dimming, Curtains, Scenes, Colour and Colour temperature control, Audio control, HVAC control(Room temperature control, Air conditioner and Ventilation system), multiple sensors(Air Quality,Temperature and humidity, Brightness, Gas, I/O single and etc.), and Current, Energy Metering display

●Logic functions

●Support bidirectional communication between ZigBee and KNX device(only for premium version BTMO-TY/00.3(4))

DESCRIPTIONS



①LAN connection
②Connect button
③Connect status LED
④LAN LED
⑤Programming LED
⑥Programming button
⑦Antenna interface
⑧Auxiliary supply connection terminal
⑨KNX bus connection

PARAMETERS

Power Supply	Bus voltage	21-30V DC, via the KNX bus
	Bus current	<4.5mA, 24V
		<4mA, 30V
	Bus	<120mW
Auxiliary Supply	Voltage	12-30V DC
	Current	<60mA, 24V
		<50mA, 30V
	Consumption	<1.5W
Connection	KNX	Bus connection terminal(Red/Black)
	Auxiliary	Bus connection terminal(Yellow/White)
	LAN	RJ45 socket for 100 Mbit and 10 Mbit BaseT, IEEE 802.3 networks
	Antenna	Rubber rod antenna or extension antenna
Operation and display	Connect button	Long press 5s will disconnect gateway
	Connect status	On: connecting; Off: connected
	LED	Always flashing: Tuya authorization code is abnormal(Unprogram)
	LAN LED	On: connected; Off: disconnected Flashing: data communication
	Programming button and LED	Red on: assign physical address Green flashing: running normally
Temperature	Operation	– 5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Environment	Humidity	<93%, except dewing
Design	Standard 35mm DIN rail installation	

INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm DIN rail which complies with DIN EN 60715 in order to facilitate quick installation of the device. Must ensure that the device operation, test, detecting, maintenance correctly.

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.

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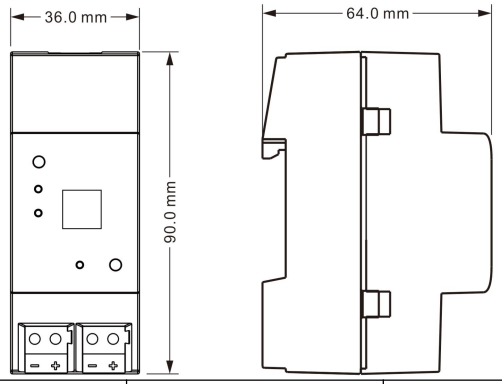
KNX-Tuya ZigBee 智能网关技术规格书

适用型号：
BTMO-TY/00.1(2)
BTMO-TY/00.3(4)

国际标准的家庭和楼宇控制系统 CE

尺寸规格



型号	尺寸	重量
BTMO-TY/00.1(2) BTMO-TY/00.3(4)	36 × 90 × 64mm	0.15kg

产品功能

●作为 ZigBee 网关功能，可连接涂鸦云，并添加 ZigBee 子设备到云端

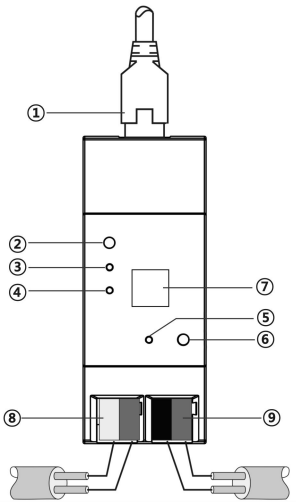
●支持将 KNX 设备上传到涂鸦平台进行管理，对设备进行控制和显示状态

●支持 KNX 系统的设备功能，包含开关、调光、窗帘、场景、颜色和色温控制（RGB、RGBW 和色温）、背景音乐、HVAC 控制（温控、空调、新风系统）、多种传感器（空气质量、温湿度、亮度、气体、开关信号等）

●支持逻辑功能

●支持 ZigBee 与 KNX 系统进行双向控制（仅适用于高级版 BTMO-TY/00.3(4)）

接线图



①LAN 连接
②连接按键
③连接状态 LED
④LAN LED
⑤编程 LED
⑥编程按钮
⑦天线接口
⑧辅助电源连接端子
⑨KNX 总线连接端子

技术参数

电　源	总线电压	21-30V DC，由 KNX 总线提供
	总线电流	<4.5mA,24V
		<4mA, 30V
	总线功耗	<120mW
辅助电源	电压	12-30V DC
	电流	<60mA, 24V
		<50mA, 30V
	功耗	<1.5W
连　接	KNX	总线连接端子(红/黑)
	辅助供电	总线连接端子(黄/白)
	LAN	RJ45 端口 10/100Base-T，
		IEEE 802.3 网络，自适应
	天线	胶棒天线或吸盘天线
操作和指示	连接按键	长按 5s 断开网关
	连接状态 LED	亮：正在连接；灭：已连接
		常闪烁：涂鸦授权码异常（未烧录）
	LAN LED	亮：已连接；灭：断开网线
		闪烁：数据通讯
	编程按键和 LED	红色：分配物理地址
		绿色闪烁：设备应用层工作正常
温度范围	运行	– 5 °C ... + 45 °C
	存储	–25 °C ... + 55 °C
	运输	– 25 °C ... + 70 °C
环境条件	湿度	<93%，结露除外
设计	DIN 导轨模块组件，35mm 丁导轨，模块化安装	

安装说明

此设备为了方便快速安装到配电箱或小盒子里面，根据 EN 60715 系列设计成模块化安装设备，能安装在 35 毫米导轨上。安装时必须确保设备操作、测试、检测、维护、维修正确无误。

重要提示

安装和调试设备只能由合格的熟练电工来操作。在计划与实施电气安装的过程中相关的标准、指令、规则和指示都要严格执行。

●需要避免器件在运输、储存、使用的过程中受潮、脏污以及受损。

●不要使器件运行在指定的技术指标之外（例如温度范围）。

当设备脏污时，只可以使用干燥的布来清洁。如果这样不足以清洁干净,可以使用湿布蘸少许肥皂溶液轻轻擦拭。绝不能使用碱剂或者腐蚀性溶剂。

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