ZigBee/Buspro Converter

Datasheet

MBUS/FH-ZB.10

Please scan the QR code above to check the latest version of datasheet!

Before using this product, please read this datasheet carefully and keep it properly!

Document Version：C

◇◆ Overview

ZigBee/Buspro Converter (hereinafter referred to as the “product” or “device”)is used to convert ZigBee smart valvesinto Buspro devices, thereby achieving data interconnection between ZigBee devices and Buspro devices.

Key functions:

1. Compatible with Zigbee and Buspro communication protocol, which enable target configuration and positioning function through HDL Buspro Setup Tool
2. Device upgrade
3. Easy programming
4. Available for address modification mode: Long press the networkconfiguration button for 2.5s to enter the address modification mode
5. Configuration & settings for ZigBee smart valves:

● Check for the valves’ network status & battery status

● Child lock function

● Temperature calibration for the valves, which is based on the ambient temperature

Note: The pictures and illustrations in this datasheet are for reference only and the actual product should prevail.Please read the datasheet carefully before use.

◇◆ Appearance

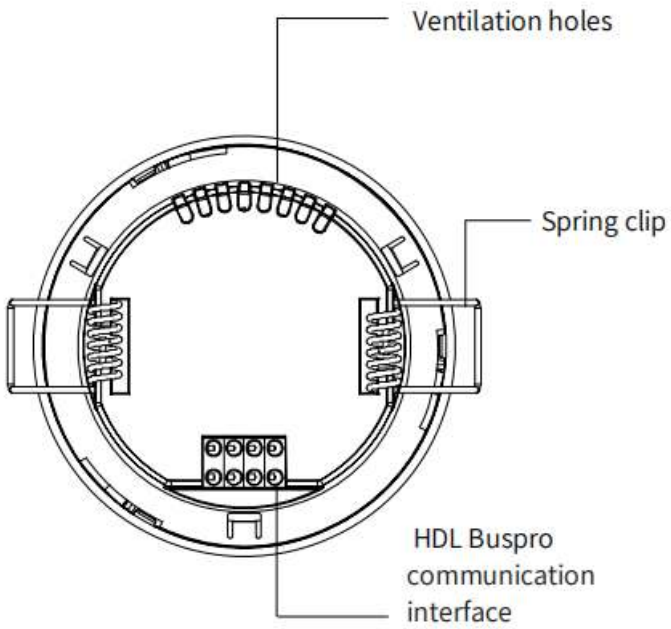

Figure 1.

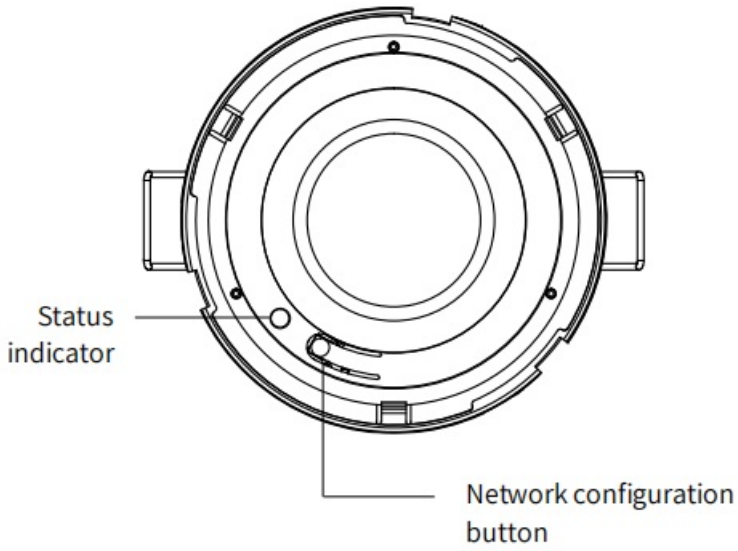

Figure 2.

◇◆ Technical Data

Item	Parameter
Working voltage	12 - 30V DC
Working current	< 50mA
Communication protocol	ZigBee 3.0, Buspro
Wireless transmission power	< 10dbm
Indoor communication distance	≤50m
Default frequency	2.4GHz
Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%

◇◆ Specifications

Item	Parameter
Dimensions	Φ72.5 x 49.5 (mm)
Net weight	61g
Housing material	Flame retardant PC

Installation	Ceiling-mounted
Protection rating (Compliant with EN 60529)	IP20

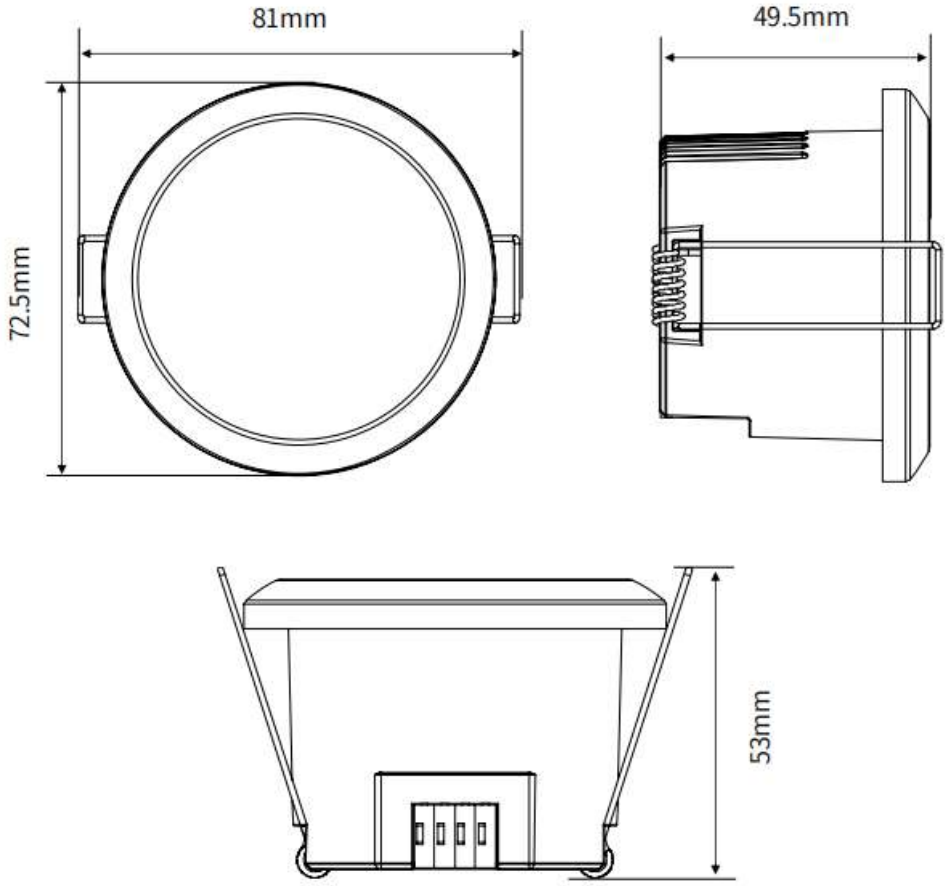

Figure 3

◇◆ Safety Precaution

- The installation and testing for the product must be carried out by HDL Automation Co., Ltd. or its appointed service agencies. The electric construction shall comply with local laws and safety regulations.
- HDL will not be responsible for any consequence caused by the inexpert or faulty installation and wiring methods, which are not in accordance with the instructions contained in this operating instruction.
- Please do not privately disassemble or replace any parts of the product. Otherwise, it may cause mechanical fault, electric shock, fire or personal injuries.
- Please contact our after-sales departments or our designated service agencies for your maintenance service. Product failures caused by private disassembly are not subject to this warranty.
- Before performing any installation or disassembly procedures, any maintenance or cleaning procedures on the device, it is crucial to disconnect the device from all voltage sources. This step is necessary to ensure the safety of the technician and prevent any potential damage to the device.
- After all of the cables are terminated, check for correct and good terminations.
- Do not use corrosive liquid to wipe the device body, especially the interface, so to avoid damage to the device.

- Do not wipe the device with a damp cloth.
- Kindly take note that the installation of the aforementioned device is recommended to be conducted in an indoor environment, with due consideration given to the avoidance of exposure to external factors such as humidity and high temperatures.

◇◆ Wiring

Note: After all of the cables are terminated, check for correct and good terminations.

◇◆ Installation

Warning: Prior to performing installation on the device, disconnect the device from all voltage sources.

For ceiling-mounted installation, please see Figure 4 and the following instructions.

Step 1. Produce an opening in diameter of 60mm in the ceiling.

Step 2. Place the device into the opening.

Step 3. Fix the device into position by clicking the spring clips to the ceiling.

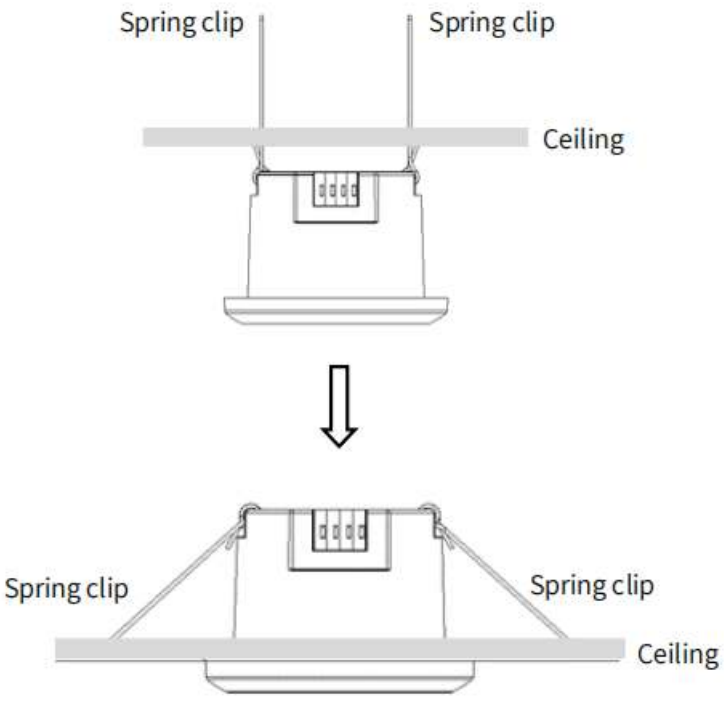

Figure 4

◇◆ Operation

As shown in Figure 5, the device is configured with one button and one indicator.

Operation	Result
Short press the network configuration button for 3 times.	The smart valve is allowed to access the network, with the status indicator flashing in red quickly for 3 minutes.
Short press the network configuration button once.	The smart valve is not allowed to access the network, with the status indicator stop flashing in red quickly for 3 minutes.
Short press the network configuration button for 2 times and then long press it for 10s.	ZigBee/Buspro Converter resumes factory setting, with the status indicator flashing in red at a frequency of 5 times per second.

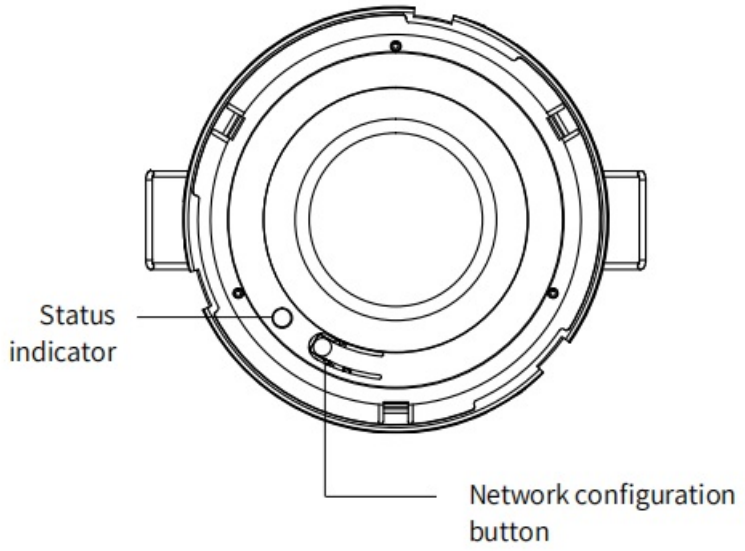

Figure 5

◇◆ Packing List

ZigBee/Buspro Converter *1 / Terminal block*1

◇◆ Copyright Statement

Update History

The form below contains the information of every update. The latest version contains all the updates of all former versions.

Version	Update Information	Date
V1.0	Initial release	June 9, 2025

◇◆ Technical Support

E-mail: hdltickets@hdlautomation.com

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