Hotel Room Control Host 2.0
MH48IP-II-HT.231

buspro

Datasheet

Version: V1.0

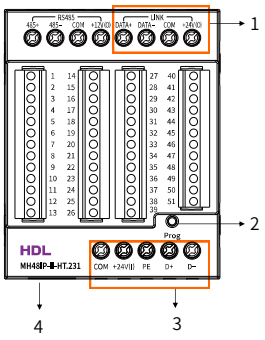


Figure 1.

NO.	Description
1	INNER Buspro port, which is used for connecting to hotel host.
2	Programming button (built-in indicator)
3	HDL Buspro communication interface This device has one independent 24V DC terminal, which can work as backup power supply.
4	RJ45 port: UDP/IP port

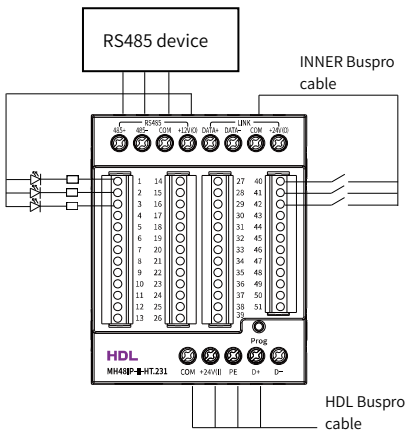


Figure 2.

Overview

Hotel Room Control Host 2.0 (see Figure 1, hereinafter referred to as the "product" or "device") has 51 dry contacts, 2 RS485 expansion interfaces, 1 Buspro bus interface and 1 UDP network communication interface. The device can control doorbell panels, curtains, lights, fans, air conditioners, floor heating and other devices.

Note: The pictures in this datasheet are for reference only and the actual product should prevail.

Please read the datasheet carefully before use.

Key functions:

- Through RJ45 port, UDP network communication is adopted, so that rooms, hotel room management software, debugging software and hotel property management system are interconnected, and information such as hotel room check-in, check-out and service is realized.
- Two RS485 interfaces, one RS485 interface is used for docking of third-party devices; the other Link interface supports HDL Inner Bus control.
- Buspro interface, supports HDL Buspro standard control.
- The device has 48 common channels, which can be used to control relays and dimmers.
- Two modes are available: card-free power-taking and card-inserting power-taking
- Supports up to 8 air conditioners, 8 curtain motors, 4 fans, and 3 floor heating devices. The control status of air conditioners, curtains, lamps and other equipment can be synchronized to various control terminals.
- 51 dry contacts, support multiple mode selection and input and output settings.
- Personalized doorbell control methods are available.
- Supports 50 scenes, each scene can be configured with 32 targets.
- 48 general logics and 8 normally used fixed logics.
- Supports system time setting.
- Saves the last history record.

Appearance

See Figure 1.

Safety Precautions

- The installation and testing for the product must be carried out by HDL Automation Co., Ltd. (hereinafter referred to as HDL) 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 datasheet.
- 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 HDL after-sales departments or our designated service agencies for your maintenance service. Product failures caused by private disassembly are not subject to the warranty.
- The device should be installed with DIN rail in DB box.
- Prior to performing installation, disassembly maintenance or cleaning on the device, disconnect the device from all voltage sources, so as to avoid electric leakage and electric shock.
- Do not use corrosive liquid to wipe the device body, especially the interface, so as to avoid damage to the device. Do not wipe the device with damp cloth.
- Buspro cable: CAT5E or HDL Buspro cable; RJ45 cable: CAT5E; Inner Buspro cable - CAT5E.
- For Buspro connection, a hand-in-hand connection is recommended.
- After all of the cables are terminated, check for correct and good terminations.

Wiring

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

For more details about wiring, please see Figure 2.

Input / Output channel

The device supports 51 channels. Each channel can be set as input or output channel. It is recommended to make a plan for cable connection in advance.

Example 1. No.1-3 channels - They are LED lights output channels, and a resistor should be connected to the LEDs. (Resistance range 470Ω-2kΩ is recommended.)

Example 2. No.40-42 channels - They are dry contact input channels.

HDL Buspro Cable Guide

Inner Buspro	HDL Buspro Cable	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue white/Green white
COM	Black	Brown white/Orange white
24V DC	Red	Brown/Orange

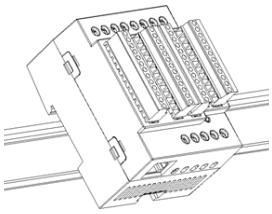


Figure 3.

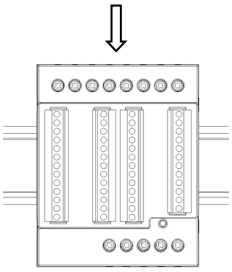


Figure 4.

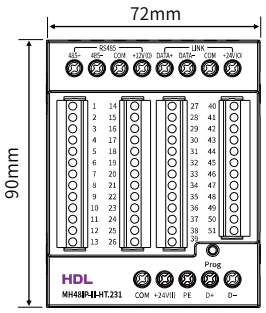


Figure 5.

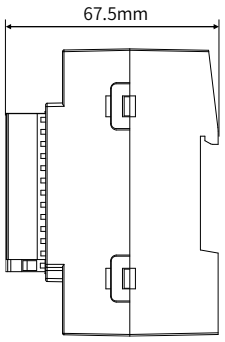


Figure 6.

Installation

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

For detailed installation, please see Figure 3 & 4 and the following instructions.

Step 1. Fix the DIN rail with screws.

Step 2. Mount the device on the DIN rail.

Step 3. Slide the device to the desired position.

⚠ Note: After all of the cables are terminated, check for correct and good terminations. Before powering on, please ensure the device is completely mounted on the DIN rail.

Operation

For operation, please see Figure 1 and the following instructions.

Item	Operation	Device Status
Programming button (built-in indicator)	/	When the device runs normally, the indicator flashes green.
	When the device runs normally, press the programming button for 10s.	The indicator turns red, then the device restores factory setting. Default setting parameters: • IP: 192.168.10.250 • Router IP:192.168.10.1 • Port: 6006 (Port 6000 is used for manual upgrade.)

Technical Data

Working voltage	20 - 30V DC
Working current	600mA/24V DC
Communication protocol	Buspro
RJ45 interface	UDP/IP network Interface
Communication interface	HDL Buspro, Inner Buspro, RS485
Working temperature	-5°C~45°C
Working relative humidity	⩽90% RH, non-condensed
Storage temperature	-20°C~60°C
Storage relative humidity	⩽93%

Specifications

Dimensions (W X H X D)	72mm×90mm×67.5mm (see Figure 5 & 6)
Net weight	130g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (see Figure 3 & 4)
Protection rating (Compliant with EN 60529)	IP20

Packing List

Hotel Room Control Host 2.0*1 / Datasheet*1

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