HDL®

HDL-MH48IP/D.231

Hotel Room Control Host

buspro

Datasheet

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Figure 1. Hotel Room Control Host

72mm
90mm
Figure 2. Dimensions - Front View

67.5mm
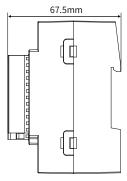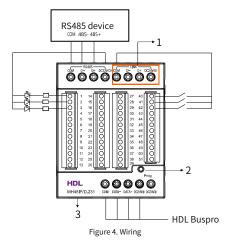Figure 3. Dimensions - Side View

RS485 device
COM 485- 485+
1
2
3
HDL Buspro
Figure 4. Wiring

Overview

Hotel Room Control Host (See Figure 1) supports hotel room host control and dry contact function. It has 48 channels. The hotel room host can control and monitor doorbell panels, curtains, lights, fans and air conditioners via the Hotel Management Software (IHMS) after parameter setting.

Functions

- The hotel host supports 48 channels, each dimmer channel has parameters for lower limit, the higher limit, the maximum limit.
- There are 50 scenes in total, and each scene's delay time is 0-250 seconds.
- The protection delay time of each channel is 0-60 minutes.
- The delay turn on time of each channel is 0-250 seconds.
- The Host can run the preset scenes or settings according to the identification of the card owner.
- Monitors and controls air conditioners, curtains, lightings, room status, and uploads the status of air conditioners, curtains, lightings and other status to the monitor software of the server in real time.
- Receives various panel control signal, and process the control signal of channels and modules.
- Network connection. The hotel room control host has a RJ45 port, which can connect to each room, reception and IHMS. Through IHMS, the module can integrate with the third party management software to exchange information.
- Supports RS485 communication devices.
- Supports dry contact function and has 51-channel dry contacts. The channel input, channel output and control targets can be set via the IHMS.

Important Notes

- Buspro cable - CAT5E or dedicated HDL Buspro cable.
- Buspro connection - Series connection (hand-in-hand recommended).
- RJ45 cable - CAT5E.
- Inner Buspro cable - CAT5E.

Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

Input/ Output channel

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

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

Take No.40-42 channels as an example, they are dry contact input channels.

1. INNER Buspro cable connects to hotel host

2. Programming button & indicator

When the hotel host runs normally, the indicator flickers in green. Keep pressing the programming button for 10 seconds, the indicator turns red, then restore the factory settings.

Default setting parameters:

IP: 192.168.10.250

Router IP:192.168.10.1   Port: 6006

3. RJ45 port: UDP/IP port

HDL Buspro:

Buspro interface. This module has 2 independent 24V DC terminals, one of which can work as backup power supply. When only one of them is connected, the module can work properly.

Safety Precautions ⚠️ WARNING

- 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.
- The device should be installed with DIN rail in distribution box. 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.

Package Contents

HDL-MH48IP/D.231*1 / Datasheet*1

Figure 5

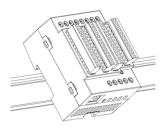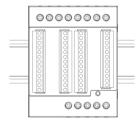

Figure 6

Figure 7

Figure 5 - 7. Installation

Technical Data

Basic Parameters	
Working voltage	20~30V DC
Working current	600mA/24V DC
RJ45 interface	UDP/IP network Interface
Communication interface	HDL Buspro, Inner Buspro

External Environment	
Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%

Specifications	
Dimensions	72mm×90mm×67.5mm
Net weight	130g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

Approved	
CE	
RoHS	

HDL Buspro Cable Guide

HDL 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

Installation

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.
Step 2. Buckle the bottom cap of the Hotel Room Control Host on the edge of the DIN rail.
Step 3. Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.