

HDL-MHD02R18U.232

20CH Hotel Room Mix Control Module

buspro

#### Datasheet

Issued: April 2, 2022

File Edition: V1.0.1



Figure 1. 20CH Hotel Room Mix Control Module

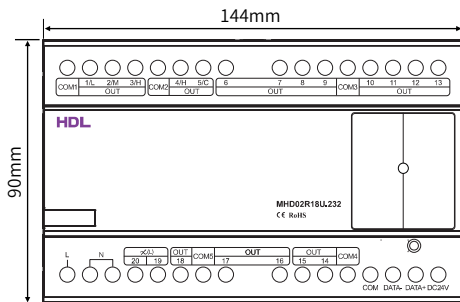


Figure 2. Dimensions - Front View

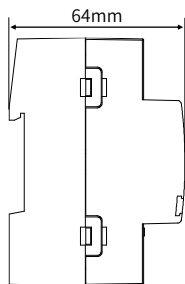


Figure 3. Dimensions - Side View

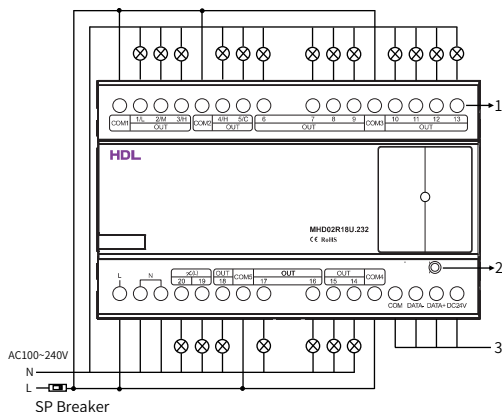


Figure 4. Wiring

## Overview

20CH Hotel Room Mix Control Module (See Figure 1) is a multifunction control module with 20 channel outputs. It supports relay control outputs and silicon-controlled rectifier outputs.

## Functions

- Channel 1 to 5 are 5A relay outputs, and also can be used for controlling AC, for example, cooling/heating switch and fan speed control. (Channel 1, 2 and 3 are connected to the Low, Medium and High fan speeds of AC, Channel 4 and 5 are connected to the Heating Mode and Cooling Mode of AC).
- Channel 6 to 13 are relay outputs. Each channel outputs 5A current. The load types are incandescent lamp, halogen lamp, low-voltage halogen lamp, LED lights.
- Channel 14 to 18 are relay outputs. Each channel outputs 10A current. The load types are incandescent lamp, halogen lamp, low-voltage halogen lamp, LED lights.
- Channel 19 to 20 are silicon-controlled rectifier outputs. Each channel outputs 1A current.
- Communication: Inner Buspro.

## Important Notes

- This module must work in conjunction with Hotel Room Control Unit.
- The current of each channel must not exceed the rated current .
- The dimming temperature should not exceed 45°C.
- The silicon-controlled rectifier dimming channel 19, 20 need to be connected with aR fuse.
- The breaker or fuse needs to be connected to each channel for protection.

## Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

- The channel connects to load devices
- Programming button & indicator: When the module works properly, the indicator flashes in green. After the programming button is pressed for 3s, the indicator turns red, then the original address of the channel can be read and modified via HDL Hotel Room Management System.
- Inner Buspro

Notice: This module should work in conjunction with the Hotel Room Control Unit.

## Safety Precautions

- 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 DB 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-MHD02R18U.232\*1 / Label\*5 / Datasheet\*1



Figure 5

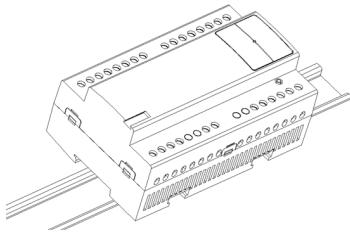


Figure 6

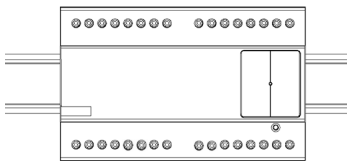


Figure 7

Figure 5 - 7. Installation

## Technical Data

### Basic Parameters

Working voltage	15~30V DC
Working current	350mA/24V DC
Input voltage	AC100~240V, 50/60Hz
Relay output	5A/10A resistive loads
Dimming output	1A silicon-controlled rectifier outputs
Communication	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	144mm×90mm×64mm
Net weight	564g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

### Approved

CE

RoHS

## Inner 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

## Installation

### Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of the module 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.

### Technical support

E-mail: [hdltickets@hdlautomation.com](mailto:hdltickets@hdlautomation.com)

Website: <https://www.hdlautomation.com>

©Copyright by HDL Automation Co., Ltd. All rights reserved.  
Specifications subject to change without notice.