

HDL-M485/GW.40

Buspro-RS485 Interface Mini

buspro

Datasheet

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Figure 1. Buspro-RS485 Interface Mini

Figure 2. Base

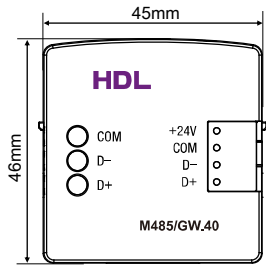


Figure 3. Dimensions - Front View

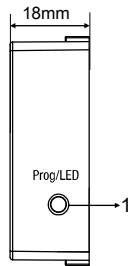


Figure 4. Dimensions - Side View

Buspro-RS485 Interface Mini

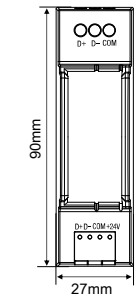


Figure 5. Base - Front View

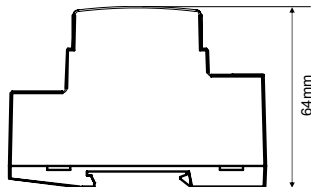


Figure 6. Base - Side View

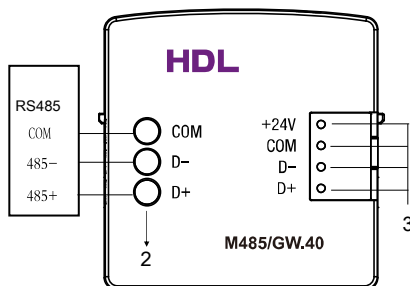


Figure 7. Wiring

Overview

Buspro-RS485 Interface Mini (See Figure 1-2) enables the bidirectional communication between the RS485 interface device and the Buspro device. And its small size has the advantage of increasing space utilization.

Its functions include:

- It is installed in the electric box by the base + module combination method, which occupies about 1.5P of the distribution box
- Supports mutual transfer between RS485 and Buspro protocol
- With a RS485 interface
- Conversion modes: string, hexadecimal, and data mode
- Supports a variety of baud rates, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
- Up to 200 control targets supported
- The user can customize the instruction identifier
- HDL Buspro communication supported
- Online update/manual update supported

Components and Operation

Dimensions of Buspro-RS485 Interface Mini - See Figure 3 - 4

Dimensions of Base - See Figure 5 - 6

Wiring - See Figure 7

1. Programming button & indicator: The green indicator will flash when the device is working properly. Keep pressing the button for 3s, the green indicator stops flashing, and the red indicator keeps on, then the subnet ID and device ID can be read and modified via HDL Buspro Setup Tool.
2. RS485 connector
3. HDL Buspro interface

Important Notes

- Buspro cable - CAT5E or dedicated HDL Buspro cable.
- Buspro connection - Series connection (hand-in-hand recommended)
- Check connections - Re-tighten all connections after installation.

⚠ 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.
- It is not allowed to exceed the range.

Package Contents

HDL-M485/GW.40 (Buspro-RS485 Interface Mini and base)*1 / Buspro connector*1 / Silica gel stopper*1 / Datasheet*1

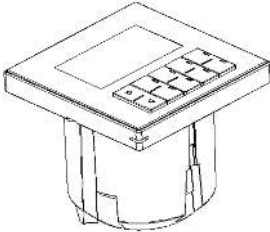
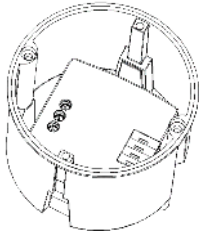


Figure 8. Wall box installation

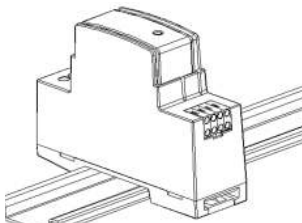
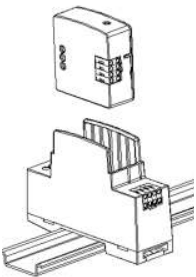


Figure 9. DIN rail installation

Technical Data

Basic Parameters

| | |
|-----------------|---|
| Working voltage | 18~36V DC |
| Working current | 12mA/24V DC |
| Baud rate | 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200bps |
| Data bit | 8 |
| Stop bit | 1, 2 |
| Communication | HDL Buspro/RS485 |

External Environment

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

Specifications

| | |
|---|---|
| Dimensions | Buspro-RS485 Interface Mini: 45mm×46mm×18mm Base: 90mm×64mm×27mm |
| Net weight | Buspro-RS485 Interface Mini: 25g Base: 45g |
| Housing material | Buspro-RS485 Interface Mini: Flame retardant PC+ABS Base: Flame retardant PA66 |
| Installation | Wall box installation (See Figure 8) 35mm DIN rail installation (See Figure 9) |
| 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

The device can be installed in wall box or on DIN rail.

Wall box installation - See Figure 8

- Step 1. Install the wall box in the wall.
- Step 2. Secure the Buspro-RS485 Interface Mini into the wall box.
- Step 3. Install the panel on the wall box with screws.

DIN rail installation - See Figure 9

- Step 1. Fix the DIN rail with screws.
- Step 2. Buckle the bottom cap of the base on the edge of the DIN rail.
- Step 3. Press the base on the DIN rail, slide it and fix it up until an appropriate position is adjusted.
- Step 4. Install the Buspro-RS485 Interface Mini in the base.

Technical support

E-mail: hdtickets@hdlautomation.com
Website: <https://www.hdlautomation.com>

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