HDL-MGWIP.430

Buspro Gateway

Datasheet

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File Edition: A



Figure 1. Buspro Gateway

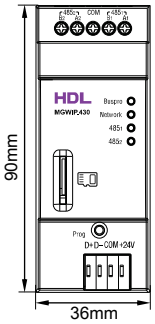


Figure 2. Dimensions - Front View

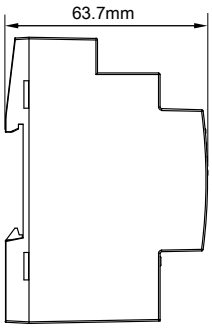


Figure 3. Dimensions - Side View

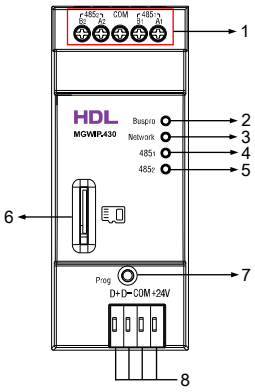


Figure 4. Components - Front View

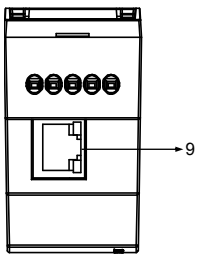


Figure 5. Components - Side View

Overview

Buspro Gateway (See Figure 1) is a product designed based on Linux system hardware platform. It supports HDL Buspro Setup Tool, ON+, Cloud server, etc., integrating scene, logic, security, clock, server automatic prompt upgrade and other functions.

Its main functions include:

- Real-time update of device status and device control
- Scene function: add scene, * area capture scene, * movie (dynamic) scene function
- Automation function
- Security function
- Support local clock, network clock, automatic synchronization of network time
- The server application automatically prompts for upgrade
- Supported protocol http \ tcp \ udp \ mqtt
- Communication via LAN between App and gateway
- APP remote access through the Cloud
- System detection, device status report
- Support backup upload and download of APP, Cloud, * SD card, debugging software
- Drive management of third-party products
- Factory reset function
- Data backup and data recovery function

Note: The functions with * are not yet open for use.

Components and Operation

Dimensions - See Figure 2 - 3

Components - See Figure 4 - 5

1. RS485 connector
2. Buspro indicator: When there is Buspro data transmission, this indicator flashes.
3. Network status indicator: When there is network data transmission, this indicator flashes.
4. $RS485_1$ indicator: When there is data transmission in $RS485_1$, this indicator flashes.
5. $RS485_2$ indicator: When there is data transmission in $RS485_2$, this indicator flashes.
6. * SD card slot: supports up to 32G micro SD card
7. Programming button & indicator: The indicator will flash when the device is working properly. Keep pressing the button for 3s, the ID can be read and modified via HDL Buspro Setup Tool.
8. HDL Buspro connector
9. RJ45 port

Factory network parameters:
IP: 192.168.10.250
Router IP: 192.168.10.1
Port: 6000

Note: The functions with * is not yet open for use.

Installation

Installation - See Figure 6 - 8

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of the gateway 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.

Important Notes

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

Safety Precautions

- The installation and commissioning of the device must be carried out by our company or the organization designated by our company. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or replace parts, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

Buspro Gateway*1 / Buspro connector*1 / Datasheet*1



Figure 6

1

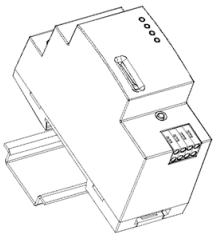


Figure 7

2

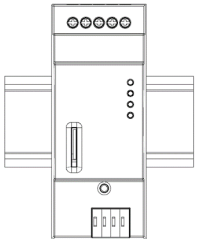


Figure 8

Figure 6 - 8. Installation

Technical Data

Basic Parameters	
Working voltage	15~30V DC
Working current	70mA/24V DC
Communication protocol	HDL Buspro Ethernet RS485
Hardware information	1.2GHz 512M RAM 4G Flash
Operation system	Linux 3.2.0 Kernel
External Environment	
Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%
Specifications	
Dimensions	90×36×63.7 (mm)
Net weight	82g
Housing material	PA66
Installation	35mm DIN rail installation (See Figure 6-8)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o
IC	o	o	o	o	×	×

The symbol “-” indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol “×” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

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

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