

Buspro Gateway User Manual

(Applicable model: HDL-MGWIP.430)

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HDL Automation Co., Ltd.

Update History

The form below contains the information of every update. The latest version contains all the updates of all former versions.

No.	Version	Update Information	Date
1	V1.0.0	Initial release	Dec 16, 2020



1 Introduction

Buspro Gateway (Model: HDL-MGWIP.430) is a product designed based on Linux system hardware platform. It sup-ports HDL Buspro Setup Tool, ON+, Cloud server, etc., integrating scene, logic, security, clock, server automatic prompt upgrade and other functions.

This manual offers the information on the configuration process of Buspro Gateway done on Buspro Setup Tool 2, and the following tools might be included:

- Buspro Gateway (Model: HDL-MGWIP.430)
- > A computer with Buspro Setup Tool 2
- > Buspro driver, or if needed, KNX and HomeKit drivers are also available for device control.
- Dedicated Buspro cables

Notice:

- ① Please refer to the datasheet attached to the product for the information of installation, wiring, specifications, etc.
- ② The pictures in this user manual are for reference only and the actual product should prevail.



2 Enter the Configuration Page

- 1. As shown in Figure 2-1, connect the panel to the system, and open Buspro Setup Tool 2 in the computer.
- 2. Click "Fast Search".
- 3. Double click the "Model" or "Description" column to enter configuration page, as shown in.

HDL Buspr	o Setup Tool 2 V1	0.05.113_20201	221_Beta	Q Advance search	Target	Function	Language -	Check version	Tool	– D	×
Status	Subnet ID	Device ID	Model	Name		Descriptio	on(double click	Version		Hardware version	n
	1	0	HDL-MBUS01IP	431		1 port swi	itchboard	Unread		N/A	
 Image: A set of the set of the	1	11	HDL-MP4B-A/T	ILE.48		4 button n	multi-functional	Unread		N/A	
~	200	0	HDL-MGWIP.43	0 HDL-M	GWIP.430	Advance n	mesh	Unread		N/A	
Double click Double click											
	p: 172.16.3.222	Total devi		line: 3 Of			online mode		g: Buspro		_

Figure 2-1 Click "Fast Search"

4. As shown in Figure 2-2, double click the column "Gateway Type" to open the configuration page.

		- 0	\times						
		Searc	n						
Gateway Type	IP	GW Mac							
HDL-MGWIP.430	172.16.3.183	1562270341901111							
Double Click									
	HDL-MGWIP.430	HDL-MGWIP.430 172.16.3.183	Gateway Type IP GW Mac HDL-MGWIR.430 172.16.3.183 1562270341901111						

Figure 2-2 Double Click "Gateway Type"	Figure	2-2 Double	e Click '	"Gateway	Type"
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2.1 Remote Access

- As shown in Figure 2-3, open Buspro Setup Tool 2, click "Option" → "Remote access"
 → Select the type "MQTT2.0".
- ② Add home, e.g., input "My Home" → Select "AGATEWAY" → Click "Add Home".
- ③ Click the search icon, the area you added can be shown in below list.
- ④ Click "OK" to complete the setting.

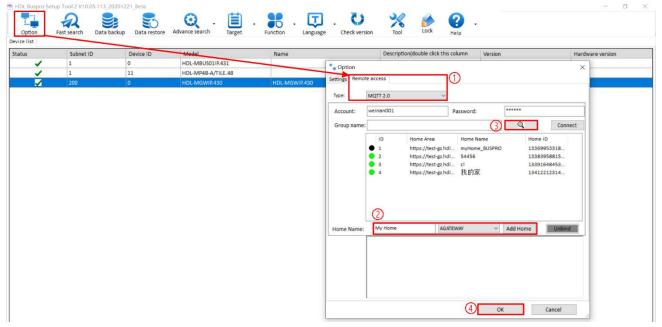


Figure 2-3 Remote Access Settings

⑤ As shown in Figure 2-4, click "Search", then double click the column "Gateway Type" to open the configuration page.

😬 AGateway Lists			— O >
Gateway List			5 Search
Name	Gateway Type	IP	GW Mac
HDL-MGWIP.430	HDL-MGWIP.430	172.16.3.185	1562270341900010
	Double click		

Figure 2-4 Remote Access Settings



⑥ As shown in Figure 2-5, click the tab "Network information" to open the configuration page → Select Home, e.g., "My Home" → Click "Save" → Regarding the connection status of gateway and the cloud, green means that the information for the new area has been successfully uploaded to the cloud. The user can remotely control this area via App.

-	70341900010 Iformation Basic information Scenes Automation D	Driver management
Name	HDL-MGWIP.430 IP: 172 .16 .3 .185 Router IP: 172 .16 .3 .1 IP MAC: 02 .81 .E7 .FD .08 .8E Mask IP: 255 .255 .255 .0 DHCP DNS I: 114 .114 .114 .114 DNS II: 114 .8 .8 .8 .8 Save	Find it Clear data Data backup Data restore Connection status of this and the gateway: Connection preferences Your connection will autpmatically be detected. Only change these settings if you want to remote programming. Type: HDL MQTT Image: MDL MQT
Dat Tim		Select Home: myHome_BUSPRO 6 Connection status of gateway and the cloud: Save

Figure 2-5 Remote Access Settings



3 Basic Setting

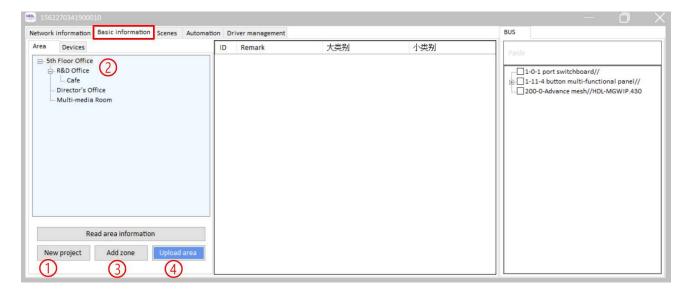
3.1 Area

Click "Basic Information" in configuration page to create the area, as shown in Figure 3-1. The detailed steps can be referred as the followings:

- ① Click "New Project" to create a new area, e.g., "Test".
- 2 Click the area you have created.
- ③ Click "Add Zone" to create sub-area, e.g., "5th Floor Office".

Click "5th Floor Office" → "Add Zone" → Create sub-area like "R&D Office".

④ Click "Upload area" to upload the configuration information to the gateway.







3.2 Devices

Click the tab "Devices" in the "Basic Information" page to add and test devices, as shown in Figure 3-2.

3.2.1 Add Devices

As shown in Figure 3-2, in the "Devices" configuration page, take the following steps as reference to upload the information for the devices to the gateway.

- ① Click the tab "Devices".
- ② Select the devices as needed within the device list located on the right side of the page, right-click to "Add" the device.
- ③ Click "Upload devices and function list" to upload the information for the devices to the gateway.

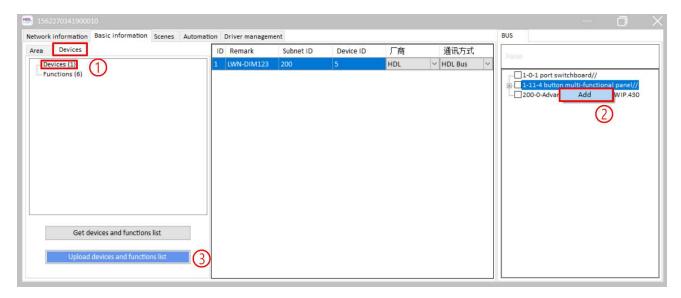


Figure 3-2 Upload information for the Devices



3.2.2 Test Devices

As shown in Figure 3-3, in the "Devices" configuration page, take the following steps as reference to test the devices.

- ① Click the tab "Functions".
- ② Select the function as needed within the function list, e.g., 1CH of the multi-functional panel.
- ③ Set up the information as needed then click "Test" to proceed device testing.

			<u> </u>
f v on Remark	Sid 0001016EFAC41101020 0001016EFAC41101020 0001016EFAC41101020 0001016EFAC41101020 0001016EFAC41101020	3 Test 当前所属区域 Multi-media Room(5th F Multi-media Room(5th F Multi-media Room(5th F R&D Office(5th Floor Off R&D Office(5th Floor Off	BUS Panle □ 1-0-1 port switchboard// □ 21-11-4 button multi-functional panel// □





4 Scene Setting

4.1 Create Scene

As shown in Figure 4-1, click the tab "Scenes" to open the configuration page, take the following steps as reference to create scenes.

- ① Click "Add Scene" to create a scene.
- ② Set up basic information for the scene:
 - Remark: Input the name for the scene, e.g., "Night" and "Auto".
 - > Delay: Set the delay time for the scene, range from 0~3600 seconds.
 - Group ID: If Scene 1 and 2 are set in the same group, they will be mutually exclusive, i.e., when Scene 1 has been triggered, once Scene 2 is executed, Scene 1 will automatically shut down.
- ③ Select the devices as needed within the device list located on the right side of the page, e.g., 1CH of the multi-functional panel.
- ④ Set up the information for the device.
- ⑤ Click "Sure" to complete the scene configuration setting.

ID	Remark	Delay(0-	3600s) grou	p id	Scene	^	D name	Functions	Delay(0-3600s)	□-☑ Devices
1	Night	0	1	~	1	1	LWN-DIM-Chn 1	on_off(on);	0	LWN-DIM-Chn 1
2	Auto	0	1	×	2					LWN-DIM-Chn 2
3	Scene No:0003	0	1	Y						LWN-DIM-Chn 4
4	Scene No:0004	0	2	~	4 4					
5	Scene No:0005	0	255	~	5					LWN-DIM-Chn 6
6	Scene No:0006	0	255	~	6					
7	Scene No:0007	0	255	~	7					
8	Scene No:0008	0	255	~	8					
9	Scene No:0009	0	255	~	9					
10	Scene No:000A	0	255	~	10					LWN-DIM-Chn 1
11	Scene No:000B	0	255	~	11					(4) on_off ∨ on ∨
12	Scene No:000C	0	255	~	12					
13	Scene No:000D	0	255	Y	13					
14	Scene No:000E	0	255	V	14	~				
		Cat an and that								Delay(0-3600s) 200 (
	0	Get scenes list								

Figure 4-1 Scene Setting



4.2 Test Scene

As shown in Figure 4-2, select the scene as needed from the scene list, then right-click and choose "Test" to proceed scene testing.

	k information Basic information	_	_	_	Driver man			A 19 M DA DOG TAND			
ID	Remark	Delay(0-3600s)	group	-		î	ID	name	Functions	Delay(0-3600s)	□ Devices
1	Night Right-C	IPCK	1	~			1	LWN-DIM-Chn 2	on_off(on);	0	UWN-DIM-Chn 1
2	Auto	0	1	~							LWN-DIM-Chn 3
3	Scene No:0003	Delete	1	~	3						LWN-DIM-Chn 4
4	Scene No:0004	Test	2	×	4						LWN-DIM-Chn 5
5	Scene No:0005	Import	255	~	5						LWN-DIM-Chn 6
6	Scene No:0006	-	255	×	6	1000					
7	Scene No:0007	0	255	~	7						
8	Scene No:0008	0	255	~	8						
9	Scene No:0009	0	255	~	9						
10	Scene No:000A	0	255	~	10						LWN-DIM-Chn 1
11	Scene No:000B	0	255	\sim	11						on_off ~ on ~
12	Scene No:000C	0	255	~	12						
13	Scene No:000D	0	255	×	13						
14	Scene No:000E	0	255	×	14	4					
17	Get s	cenes list									Delay(0-3600s) 200 (S)
	Add scene Dele	te scene			ene list	.					Sure

Figure 4-2 Scene Testing



5 Automation Setting

As shown in Figure 5-1, click the tab "Automation" to open the configuration page, take the following steps as reference to create scenes.

- Click "Add single automation", then revise the name for the automation as required, e.g., "Night".
- ② Select the automation relation:
 - > And: The output results are executed when all the input conditions are met.
 - > or: The output results are executed when one of the input conditions is met.
- ③ Set up the time and date.
- ④ Select the devices as needed within the device list located on the right side of the page, then set up the information for the device.
- ⑤ Click "Add new input" to create input condition.
- ⁽⁶⁾ Once again, select the devices as needed within the device list located on the right side of the page, then set up the information for the device. Click "Add new output" to create output condition.
- \bigcirc Click "Upload automation list" to upload the settings to the gateway.
- "Get automation list": Click this tab to download the settings from the gateway to Buspro software.
- > Click the tab "Delete selected automation" to remove the settings.

1	🕾 1562270341900010 — 🗌 🔿 📉													
ī.	Network i	nformation	n Basic information Sc	enes	Automation Driver management							GW Devices GW Scenes	GW Logics	
	Enable	ID	Name	^	Current selected logic information Time and date				Cycle	Cycle Items		Devices LWN-DIM-Chn 1		
н			Night				3			eyele nems		LWN-DIM-Chn 2		
IJ	\checkmark	2	Auto									LWN-DIM-Chn 4		
Ш	\checkmark	3			Type: Always	~	Add					LWN-DIM-Chn 5		
Ш	\checkmark	4										LWN-DIM-Chn 6		
Ш	\checkmark	5		_										
Ш	\checkmark	6		_	Range v 11	; 30 🔹 - 23	🛋 · 59 🛋							
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Ш		8		- 1	Input									
Ľ	\checkmark	9		~		0		^	Output					
6	ก	Get	automation list		Relation: And) Or			Delay: 0	: 0 (min	:sec)	on_off ~	off	~
N	<u>ч</u>				Name Type	Value	Comparator		Name	Туре	Value		=	~
L		Add si	ingle automation		on_off	off				on_off	off			
L		Delete se	elected automation									5 Add ne	w input	
Ć		Uploa	d automation list					~				6 Add nev	v output	





6 Driver Management

As shown in Figure 6-1, click the tab "Driver Management" to open the configuration page, take the following steps as reference to create scenes.

- ① Driver name: HDL-LINK is the core driver. Buspro is the system software developed by HDL. Please DO NOT disable or uninstall them.
- ② Driver State: Green means that the driver runs normally; red means that the drivers fails to run because of software faults.
- ③ In the driver list, if needed, select one of the drivers then right click to choose "Driver Uninstall".

Note: as described in first point, we recommend you do not uninstall HDL-LINK and buspro.

1587506335600005					— Ō X
Network information Basic informa	tion Scenes Automation Driver manag	ement			
Driver Management					
Enable	Driver Name	Driver State	Version in Gateway	Driver C	ode
	HDL-LINK		HDL_V0.01U_2020/12/22_2051	040004FB	
	buspro		HDL_V0.01_202012212200 Driver U	Ininstall	
0		2		(3)	
		9		\bigcirc	
		Select drive file to upload	Refresh drive status		

Figure 6-1 Driver Management