

HDL[®]

User Manual

HDL-MGSM.431



buspro

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Document updates:

Version	Date	Description
V1.0	2015.05.08	Finish new document

INDEX

1. Overview.....	1
1.1 General Information.....	1
1.1.1 Description.....	1
1.1.2 Mounting.....	1
1.2 Functions.....	1
2. Technical Data.....	2
3. Installation.....	3
3.1 Wiring.....	3
4.2 HDL BUS Pro Description.....	4
4. Software Configuration.....	4
4.1 Basic settings.....	4
4.1.1 Changing the device ID.....	4
4.1.2 Remark.....	5
4.1.3 Network parameters.....	5
4.1.4 Service center numbers.....	6
4.2 Receiving an SMS.....	7
4.2.1 Receiving an SMS.....	7
4.2.2 Verifying phone numbers.....	7
4.2 Sending an SMS.....	8
4.3 Testing.....	8
4.3.1 SIM card signal.....	8
5. NOTES.....	11

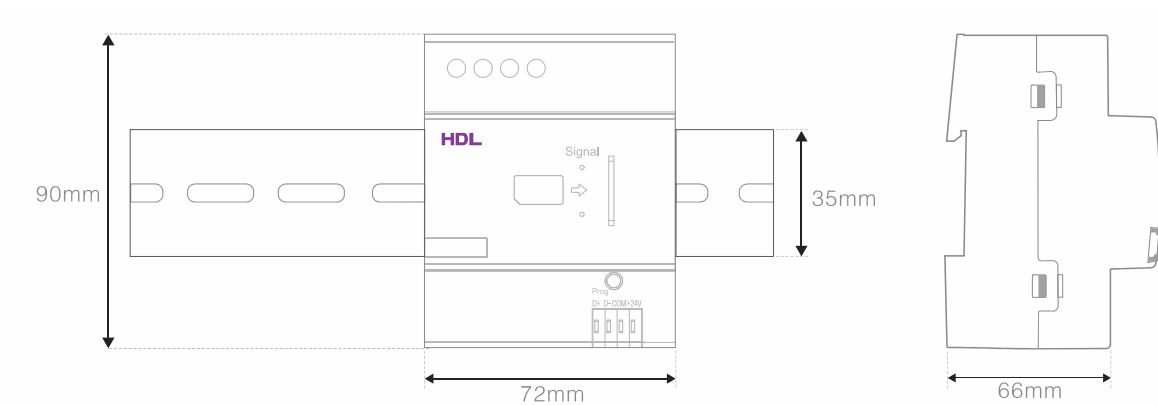
1. Overview

1.1 General Information

1.1.1 Description

The MGSM.431 module is capable of both GSM monitoring and GSM control. This enables a user to control their automation targets via a single SMS message, regardless of their location. SMS status messages concerning the automation system can also be sent to users allowing real time system monitoring.

1.1.2 Mounting

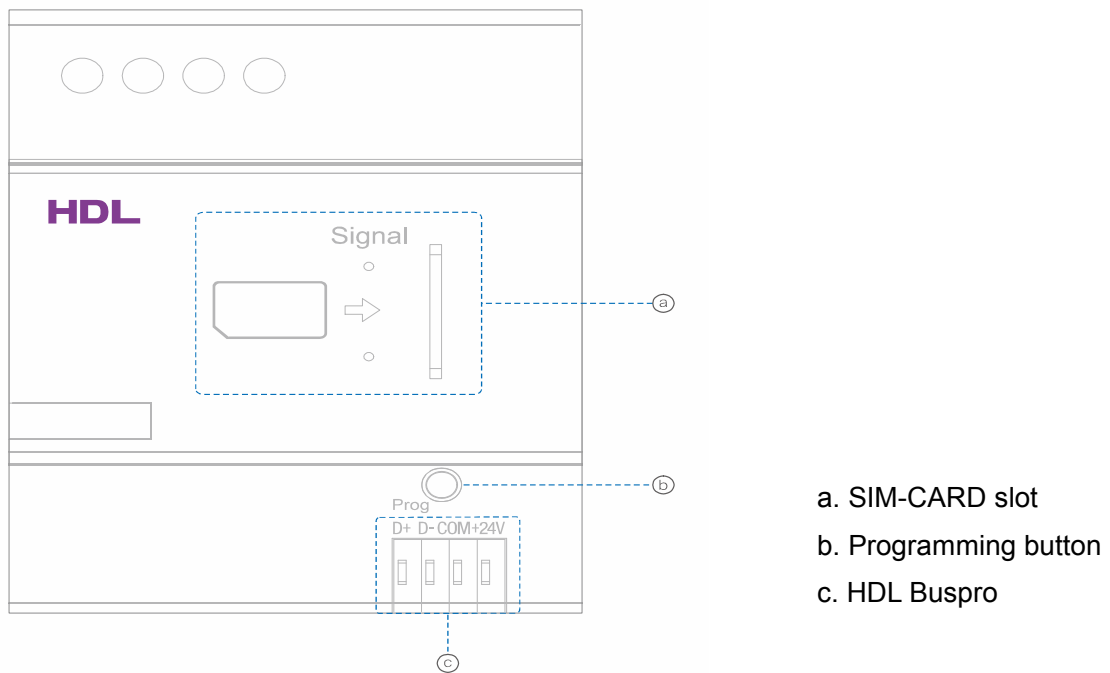


- Standard 35mm Din Rail Installation
- Inside Distribution Box(DB)

1.2 Functions

- SMS control (99*48 targets).
- Sending and receiving SMS messages.
- Status view
- Soft reset
- SMS feedback
- Gateway between HDL Buspro and Ethernet

1.3 Device Description



2. Technical Data

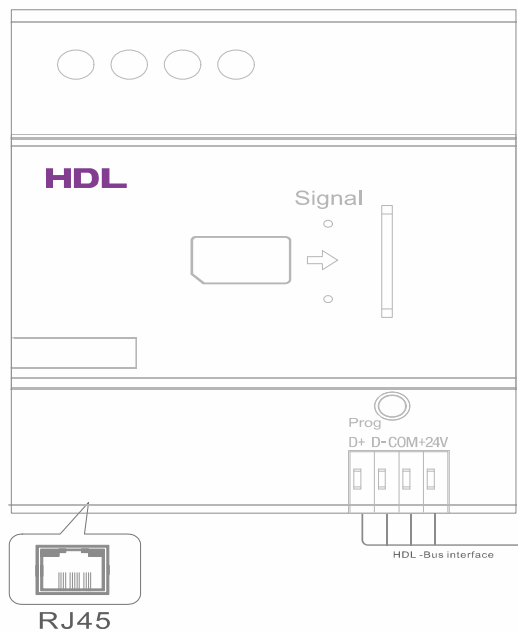
Electrical Parameters :	
Bus power	DC12~30V
Bus power consumption	60mA/DC24V
SIM Card	25mmX16mm
Communication system	4 frequency GSM
Bust terminal	Wago 252,0.75-.85mm single diameter
Environmental Conditions :	
Working temperature	0°C~45°C
Working relative humidity	Up to 90%
Storage temperature	-20°C~+60°C
Storage relative humidity	Up to 93%
Approved	
CE	

RoHS	
Product information :	
Dimensions	72×88×66 (mm)
Installation	35mm Din Rail installation
Housing material	PA66
Protection degree	IP20

3. Installation

3.1 Wiring

Follow the wiring diagram below exactly, failure to do so will result in damage to the module.



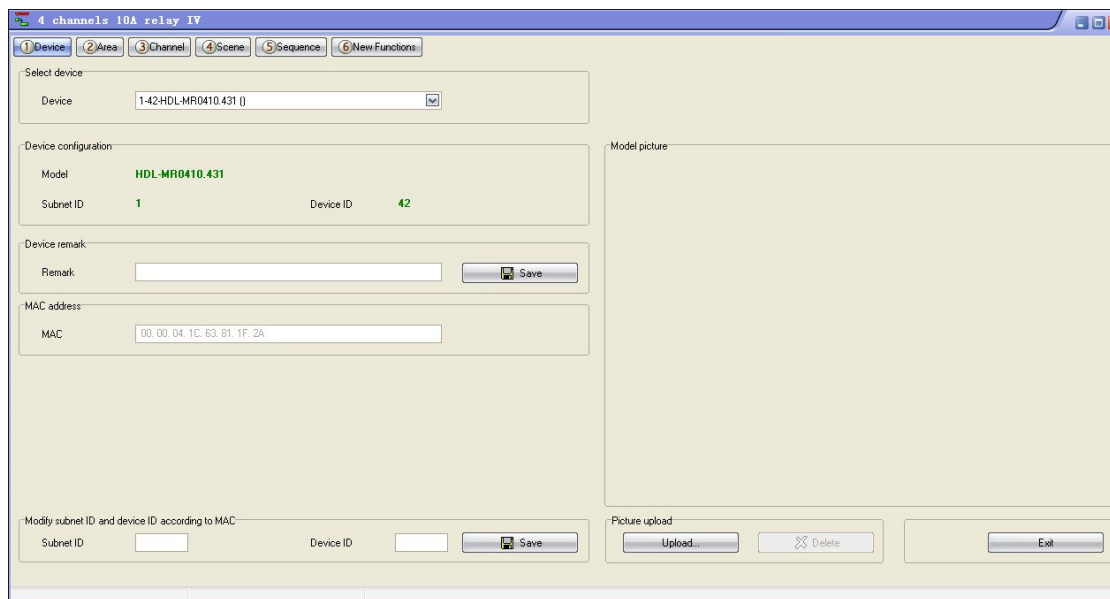
4.2 HDL BUS Pro Description

Connector Information

buspro	
DC24V	Red
COM	Black
DATA-	White
DATA+	Yellow

4. Software Configuration

4.1 Basic settings



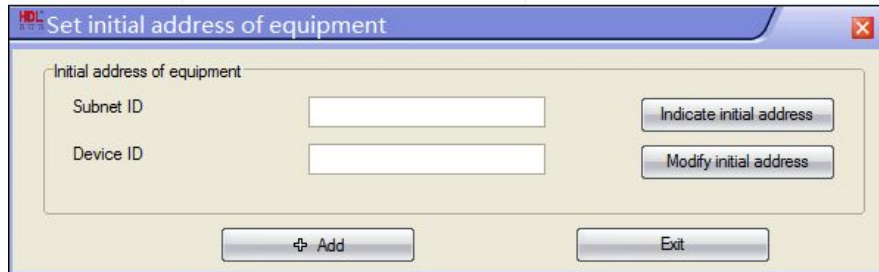
4.1.1 Changing the device ID

It's recommended to connect it via RJ45 and set the subnet ID different from the Gateway (typically the SB-DN-1IP or HDL-MBUS01IP.431).

Method One:

1. Open the HDL-BUS Pro Setup tool.
2. Long press the “programming button” for three seconds, until the LED turns red.

3. Using the HDL-BUS Pro Setup tool, click on “Address management”, and then select the “Modify address (when the programming button is depressed)” option, the below window will then appear:



5. Click on the “Indicate initial address” tab, and the subnet/device ID of the module will be displayed. To modify the address, enter in the new address click on the “Modify initial address” tab, then click on the “+Add” tab. The module will then be added to the “ON-line devices” list.

Method two:

1. Open the HDL-BUS Pro Setup tool, and then search for the online devices by clicking on the search button. The module will then be displayed on the “online device list”.

4.1.2 Remark

It is recommended that the module is named so it can be differentiated from other modules.

4.1.3 Network parameters

Before the module is used, first it must be configured. To do this the IP address must be set under the same segment as your PC or router and the 1IP module.

After the module has had its IP address changed, it must then be restarted for the changes to be implemented.

The default IP address of the module is 192.168.10.250.

Network parameter

IP: Port:

Route IP: Subnet mask:

IP MAC:

The device must be restarted (power on/off) after changing the IP-address.

The IP MAC of the module should also be modified to ensure that it is different from other modules. The default IP MAC is “HDL 85.85.85”.

Setting the date and time

Before the module is used, the current date and time should be set. To set the modules time and date, click on the “PC time” , and then click on save.

(The default PC time will be set as the module time if the “PC time” tab is clicked.)

Date Setting for Timer

Date: Friday

Time: : : (hh:mm:ss)

Modify subnet ID and device ID according to MAC

SubNet ID: Device ID:

4.1.4 Service center numbers

All telecommunication service providers’ use different service center numbers. To enable the SMS module to communicate, the correct service center number and country code must be entered. Contact with your service provider for the correct service number.

Important Information

Service center: *****

Country code: *****

IMEI:

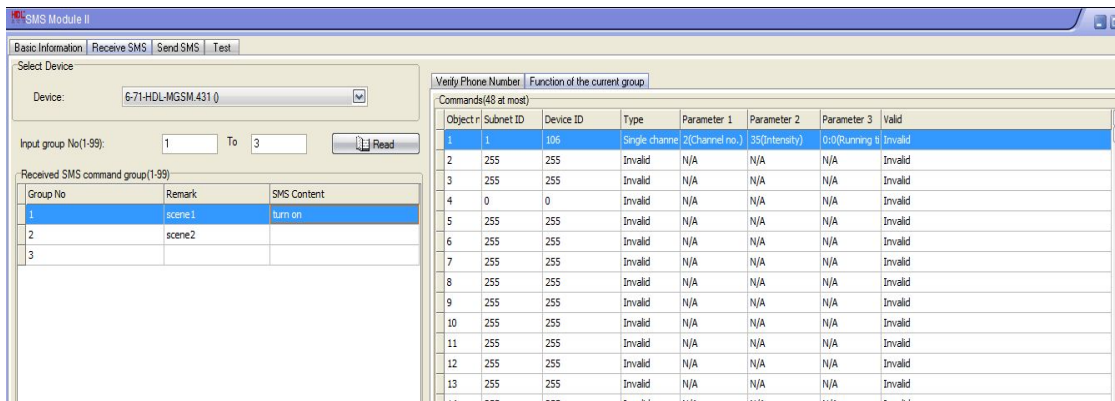
Upload picture

N.B: It is essential that the service center and country code is input.

4.2 Receiving an SMS

4.2.1 Receiving an SMS

The SMS module can trigger a target after it receives SMS message. The message content sent to the the SMS module can be modified, and the target of each message can be configured.

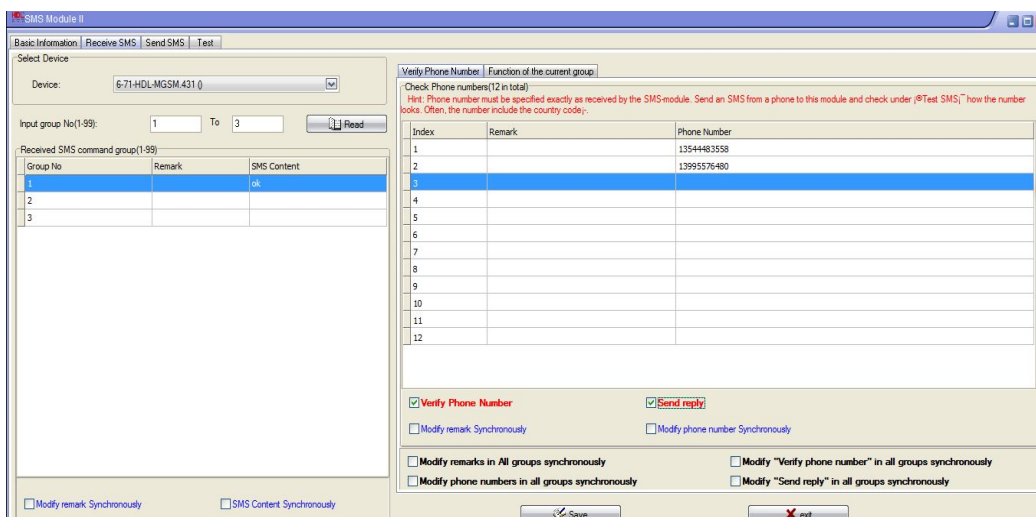


-Up to 99 groups can be controlled via SMS, each group may have 48 targets.

4.2.2 Verifying phone numbers

If the “verify phone number” option is selected, only verified and authorized phone numbers can send a message to the SMS module to control a target.

-Enter the phone numbers that will be authorized to control the SMS module, and then click the ‘Save’ button.



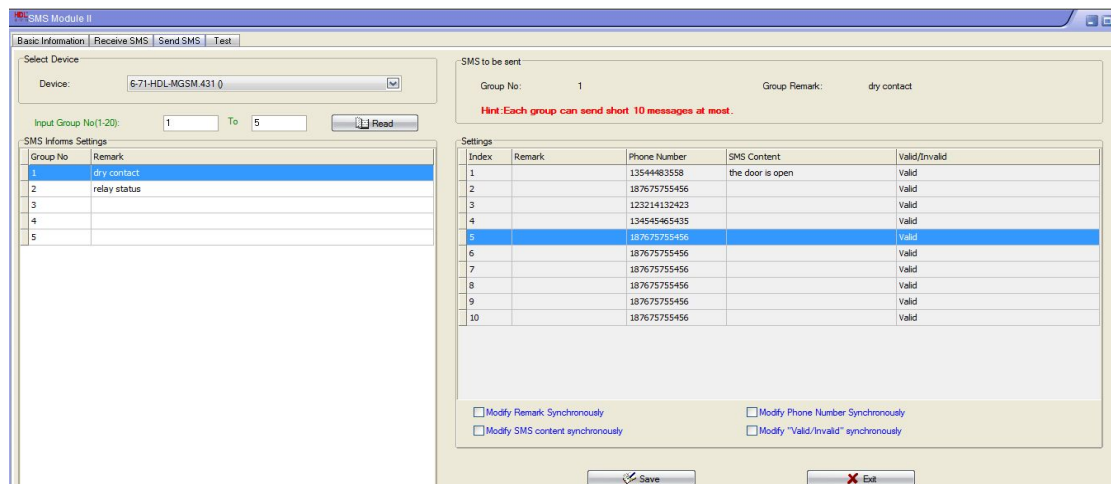
- If the “send reply” option is selected the SMS module will send a feedback message when the module receives a message.

4.2 Sending an SMS

The SMS module can send out a message to inform a user about the status of a specific module (security module , logic module, sensors.....).

You can set 20 input groups at most, each grouping can send a maximum of 10 short messages.

- The Group NO. is also used as the Universal switch number. As an example when a door is opened, an alarm message will be sent to the user.

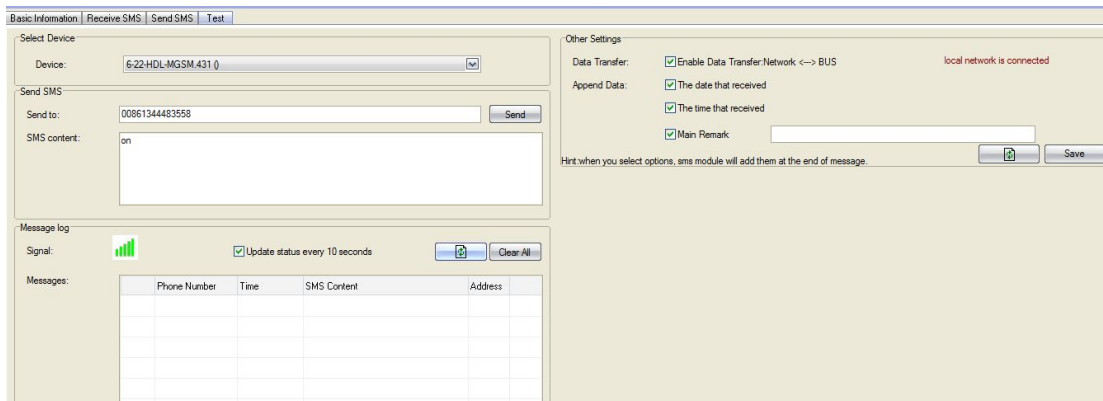


4.3 Testing

4.3.1 SIM card signal

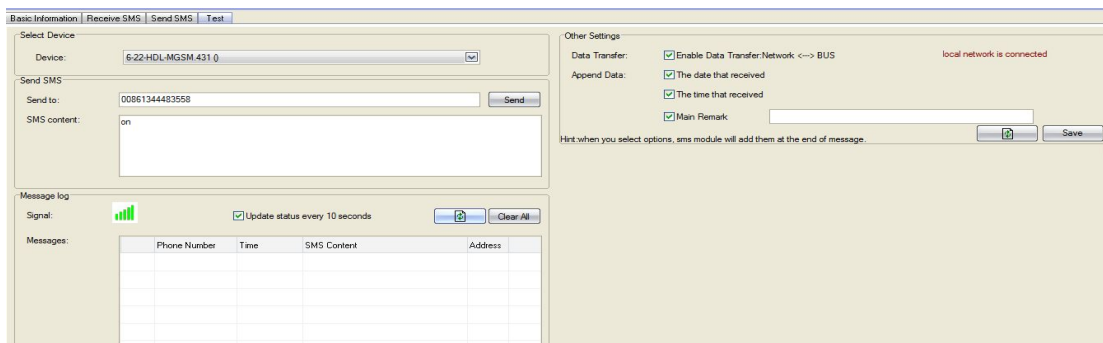
The SMS module can show the signal strength of the modules SIM card.

-The SIM card can be tested by sending a short message to a preset telephone number.



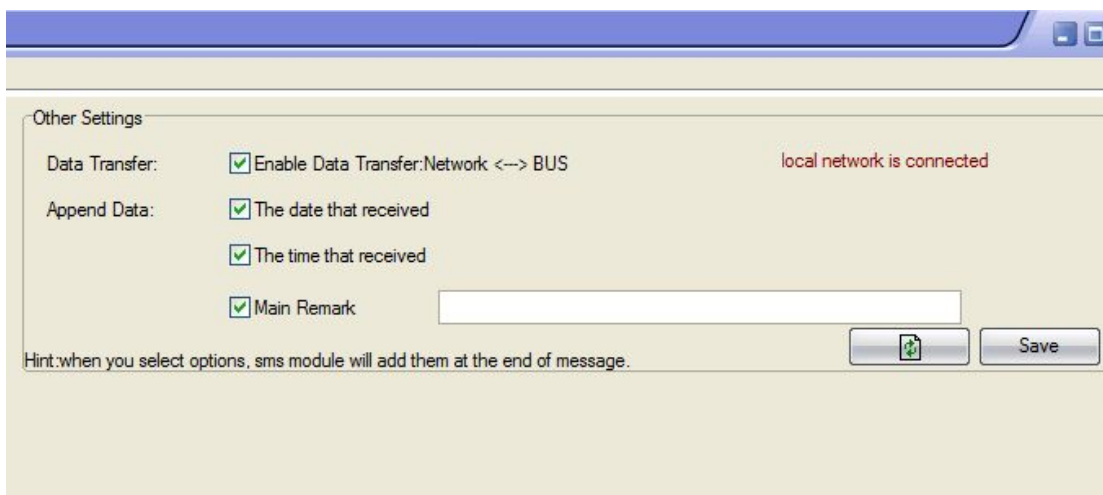
4.3.2 History log

The SMS module has a history log (message log) which can record and display the latest messages the module has received.



- The status will be updated every 10s if the option “update status every 10s” is checked.

4.3.3 Other settings



a) Enable data transfer: network<—>HDL-bus

If this option is selected, the module can operate as a communication gateway between HDL devices.

b) The data that received

When the SMS module receives data, it will be added to the message.

c) The time that received

This will display the time that the message is received by the SMS module.

d) Main remark

A user can add remark e.g: the name of the project.

