

# User Manual

Revision 1.002  
English

## BACnet Master / KNX - Converter

(Order Code: HD67801-KNX-BIP-B2, HD67801-KNX-BMSTP-B2)

for Website information:

[www.adfweb.com?Product=HD67801](http://www.adfweb.com?Product=HD67801)

for Price information:

[www.adfweb.com?Price=HD67801-KNX-BIP-B2](http://www.adfweb.com?Price=HD67801-KNX-BIP-B2)

[www.adfweb.com?Price=HD67801-KNX-BMSTP-B2](http://www.adfweb.com?Price=HD67801-KNX-BMSTP-B2)

### Benefits and Main Features:

- ⊕ Very easy to configure
- ⊕ Electrical isolation
- ⊕ Temperature range: -40°C/85°C (-40°F/185°F)



For others KNX products, see also the following links:

#### Converter KNX to

- [www.adfweb.com?Product=HD67802](http://www.adfweb.com?Product=HD67802)
- [www.adfweb.com?Product=HD67803](http://www.adfweb.com?Product=HD67803)
- [www.adfweb.com?Product=HD67804](http://www.adfweb.com?Product=HD67804)
- [www.adfweb.com?Product=HD67807](http://www.adfweb.com?Product=HD67807)
- [www.adfweb.com?Product=HD67808](http://www.adfweb.com?Product=HD67808)
- [www.adfweb.com?Product=HD67809](http://www.adfweb.com?Product=HD67809)
- [www.adfweb.com?Product=HD67810](http://www.adfweb.com?Product=HD67810)
- [www.adfweb.com?Product=HD67811](http://www.adfweb.com?Product=HD67811)
- [www.adfweb.com?Product=HD67812](http://www.adfweb.com?Product=HD67812)
- [www.adfweb.com?Product=HD67813](http://www.adfweb.com?Product=HD67813)
- [www.adfweb.com?Product=HD67814](http://www.adfweb.com?Product=HD67814)
- [www.adfweb.com?Product=HD67815](http://www.adfweb.com?Product=HD67815)
- [www.adfweb.com?Product=HD67818](http://www.adfweb.com?Product=HD67818)
- [www.adfweb.com?Product=HD67820](http://www.adfweb.com?Product=HD67820)
- [www.adfweb.com?Product=HD67821](http://www.adfweb.com?Product=HD67821)

- (BACnet Slave)**
- (CAN)**
- (CANopen)**
- (EtherNet/IP)**
- (DeviceNet Master)**
- (DeviceNet Slave)**
- (J1939)**
- (M-Bus Master)**
- (Modbus Master)**
- (Modbus Slave)**
- (Modbus TCP Master)**
- (Modbus TCP Slave)**
- (PROFINET)**
- (SNMP)**
- (DMX)**

Do you have an your customer protocol?

[www.adfweb.com?Product=HD67003](http://www.adfweb.com?Product=HD67003)

Do you need to choose a device? do you want help?

[www.adfweb.com?Cmd=helpme](http://www.adfweb.com?Cmd=helpme)



User Manual

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**UPDATED DOCUMENTATION:**

Dear customer, we thank you for your attention and we remind you that you need to check that the following document is:

- ✚ Updated
- ✚ Related to the product you own

To obtain the most recently updated document, note the “document code” that appears at the top right-hand corner of each page of this document.

With this “Document Code” go to web page [www.adfweb.com/download/](http://www.adfweb.com/download/) and search for the corresponding code on the page. Click on the proper “Document Code” and download the updates.

**REVISION LIST:**

Revision	Date	Author	Chapter	Description
1.000	20/04/2015	Ff	All	First Release
1.001	08/09/2015	Ff	All	Revision
1.002	26/02/2016	Nt	All	Revision

**WARNING:**

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ADFweb.com is not responsible for any error this manual may contain.

**TRADEMARKS:**

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**SECURITY ALERT:****GENERAL INFORMATION**

To ensure safe operation, the device must be operated according to the instructions in the manual. When using the device, legal and safety regulation are required for each individual application. The same applies also when using accessories.

**INTENDED USE**

Machines and systems must be designed so the faulty conditions do not lead to a dangerous situation for the operator (i.e. independent limit switches, mechanical interlocks, etc.).

**QUALIFIED PERSONNEL**

The device can be used only by qualified personnel, strictly in accordance with the specifications.

Qualified personnel are persons who are familiar with the installation, assembly, commissioning and operation of this equipment and who have appropriate qualifications for their job.

**RESIDUAL RISKS**

The device is state-of-the-art and is safe. The instruments can represent a potential hazard if they are inappropriately installed and operated by untrained personnel. These instructions refer to residual risks with the following symbol:

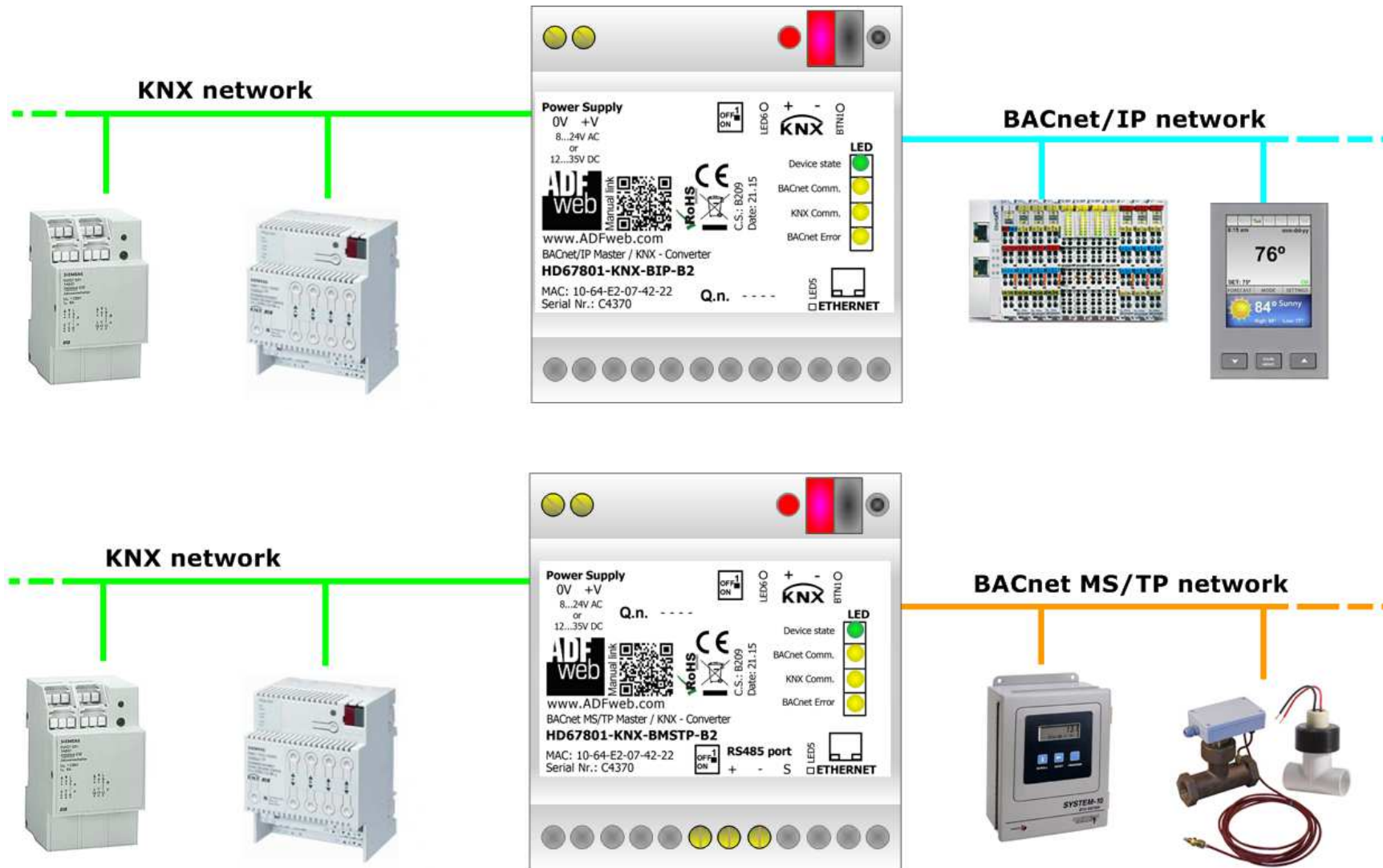


This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

**CE CONFORMITY**

The declaration is made by our company. You can send an email to [support@adfweb.com](mailto:support@adfweb.com) or give us a call if you need it.

**EXAMPLE OF CONNECTION:**



**CONNECTION SCHEME:**

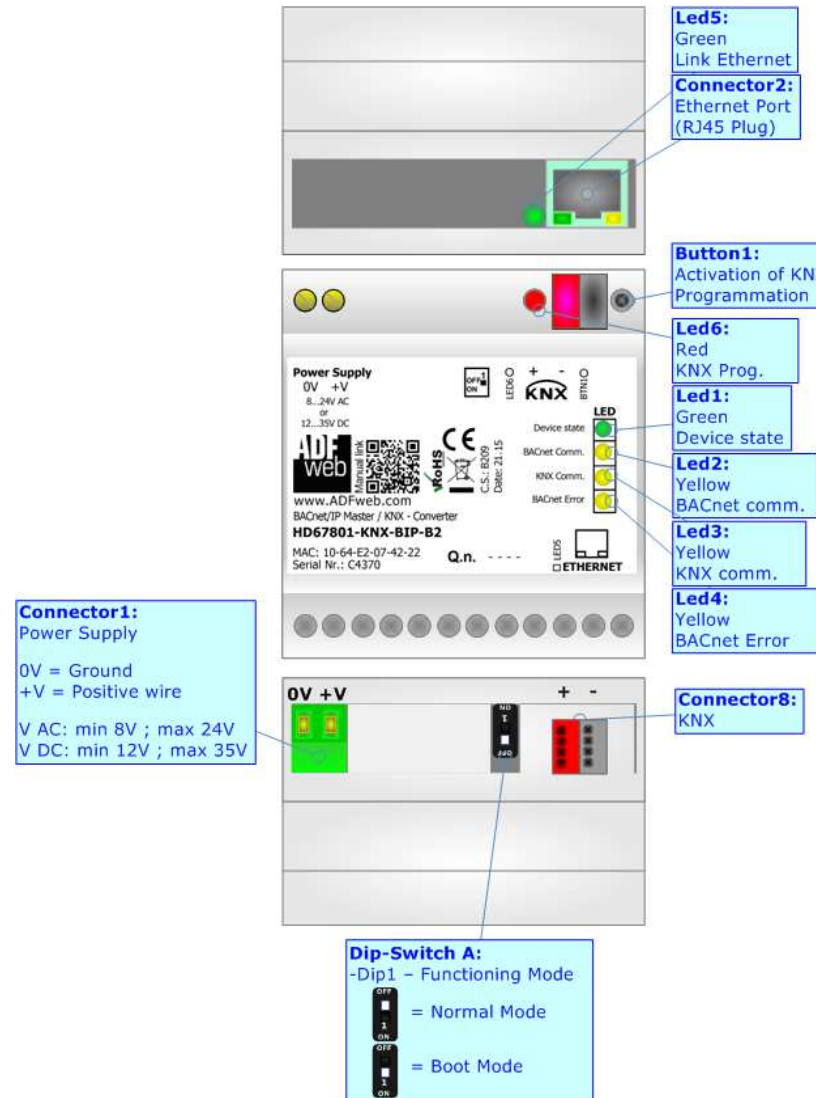


Figure 1a: Connection scheme for HD67801-KNX-BIP-B2

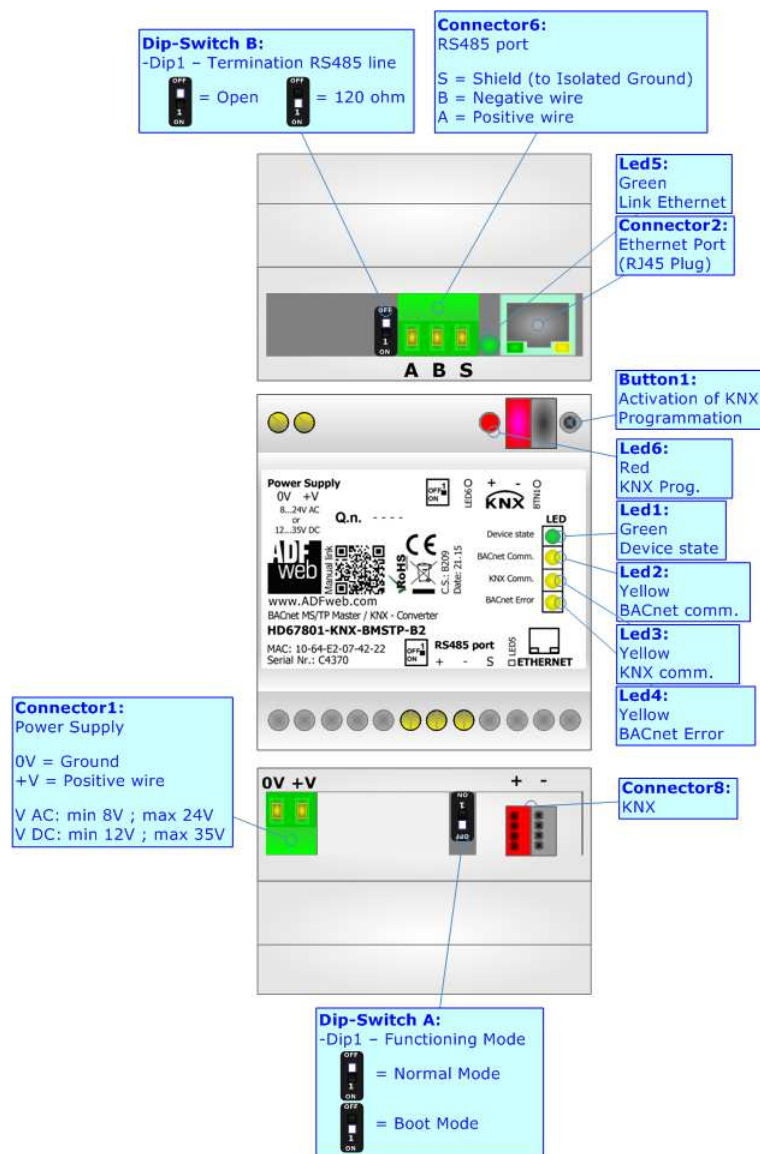


Figure 1b: Connection scheme for HD67801-KNX-BMSTP-B2

**CHARACTERISTICS:**

The HD67801 is a BACnet Master / KNX Converter.

It has the following characteristics:

- Up to 1440 bytes in reading and 1440 bytes in writing;
- Triple isolation between KNX - Power Supply, KNX - BACnet, Power Supply - BACnet.
- Two-directional information between KNX bus and BACnet bus;
- Mountable on 35mm Rail DIN;
- Wide power supply input range: 8...24V AC or 12...35V DC;
- Wide temperature range: -40°C / 85°C [-40°F / +185°F].

**CONFIGURATION:**

You need Compositor SW67801 software on your PC in order to perform the following:

- Define the parameter of KNX line;
- Define the parameter of BACnet line;
- Define the BACnet data that the converter reads;
- Define the BACnet data that the converter writes;
- Update the device.

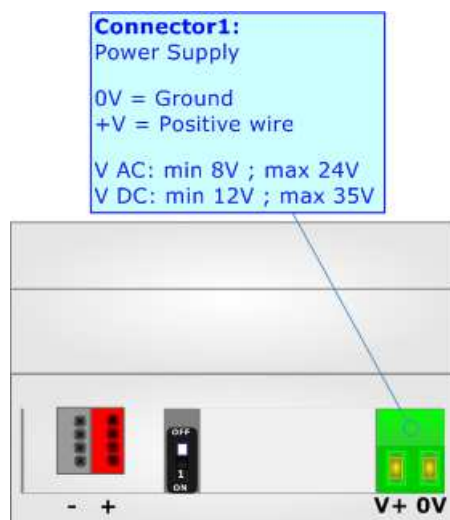
**POWER SUPPLY:**

The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

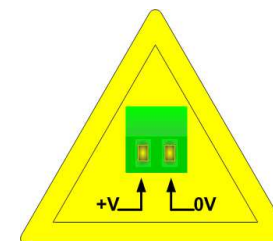
VAC		VDC	
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

Consumption at 24V DC:

Device	Consumption [W/VA]
HD67801-KNX-BIP-B2	3.5
HD67801-KNX-BMSTP-B2	3.5



**Caution: Not reverse the polarity power**



HD67801-KNX-BIP-B2  
HD67801-KNX-BMSTP-B2



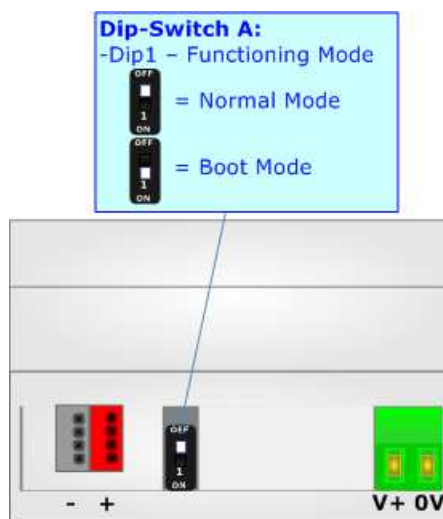
**FUNCTION MODES:**

The device has got two functions mode depending of the position of the 'Dip1 of Dip-Switch A':

- The first, with 'Dip1 of Dip-Switch A' at "OFF" position, is used for the normal working of the device.
- The second, with 'Dip1 of Dip-Switch A' at "ON" position, is used for upload the Project and/or Firmware.

For the operations to follow for the updating, see 'UPDATE DEVICE' section.

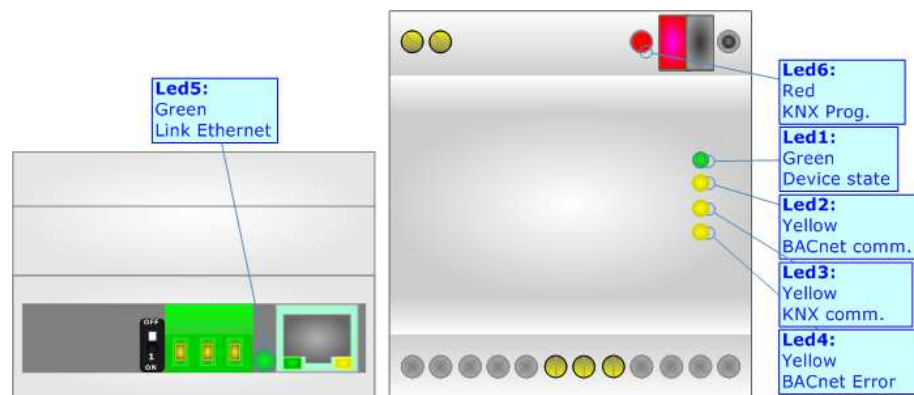
According to the functioning mode, the LEDs will have specifics functions, see 'LEDS' section.



**LEDS:**

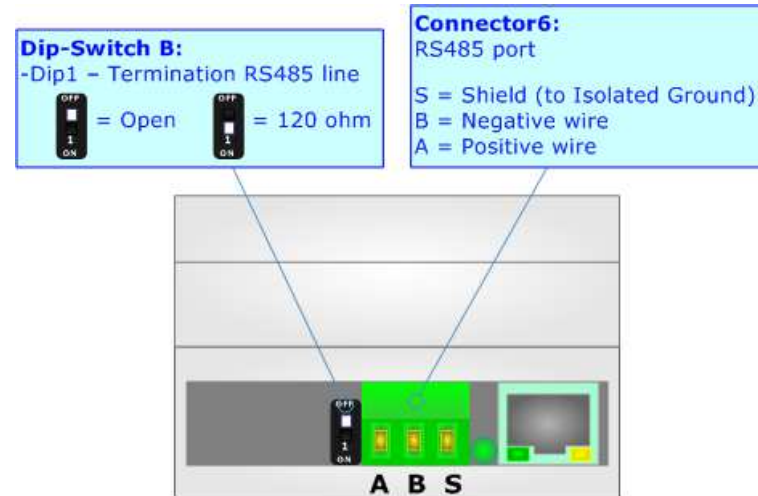
The device has got six LEDs that are used to give information of the functioning status. The various meanings of the LEDs are described in the table below.

LED	Normal Mode	Boot Mode
1: Device State (green)	Blinks slowly (~1Hz)	<b>ON:</b> Device powered <b>OFF:</b> Device not powered
2: BACnet communication (yellow)	Blinks when BACnet frame (RS232/RS485/Ethernet) is received	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
3: KNX communication (yellow)	Blinks when KNX frame is received	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
4: BACnet Error (yellow)	<b>ON:</b> At least one BACnet request hasn't a correct response <b>OFF:</b> No errors are present	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
5: Ethernet Link (green)	<b>ON:</b> Ethernet cable connected <b>OFF:</b> Ethernet cable disconnected	<b>ON:</b> Ethernet cable connected <b>OFF:</b> Ethernet cable disconnected
6: KNX Programmation (red)	<b>ON:</b> KNX Programmation activated <b>OFF:</b> KNX Programmation not activated	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress



**RS485:**

For terminate the RS485 line with a 220Ω resistor it is necessary to put ON dip 1, like in figure.



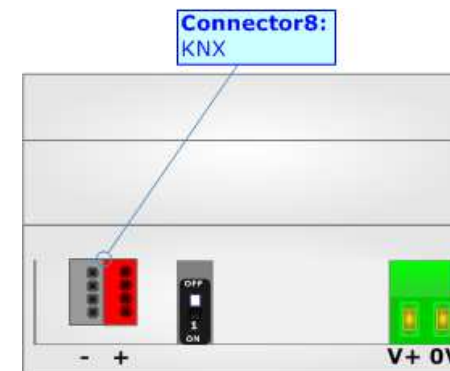
The maximum length of the cable should be 1200m (4000 feet).

Here some codes of cables:

- Belden: p/n 8132 - 2x 28AWG stranded twisted pairs conductor + foil shield + braid shield;
- Belden p/n 82842 - 2x 24AWG stranded twisted pairs conductor + foil shield + braid shield;
- Tasker: p/n C521 - 1x 24AWG twisted pair conductor + foil shield + braid shield;
- Tasker: p/n C522 - 2x 24AWG twisted pairs conductor + foil shield + braid shield.

**KNX:**

KNX is the standard that allows the automated and decentralized management of the technologic plans of a big typology of structures: commercial buildings, factories, houses, public locals, schools and so on. KNX can be used in all the applications and functions for the building automations: from lighting to control dampers, to the security, to the heating monitoring, to the conditioning, to the hydric control and alarms, to energy management and so on.



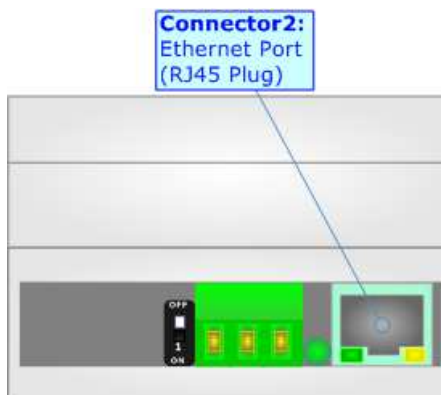
Characteristics	Description TP1-256
Medium	Shielded Twisted Pair
Topology	Linear, Star, Tree or mixed
Baudrate	9600 bps
Device supplying	Normal: bus powered devices Optional: remote powered devices
Device power consumption	3 mA- 12 mA
Power Supply Unit (PSU)	DC 30 V
Number of PSU's per physical Segment	Max. 2
Number of connectable devices per physical Segment	Max. 256
Number of addressable devices per physical Segment	Max. 255
Total cable length per physical Segment	Max. 1000 m
Distance between two devices	Max. 700 m

(\* ) Taken from KNX specifications

**ETHERNET:**

The Ethernet port is used for the BACnet/IP communication (HD67801-KNX-BIP-B2) and for programming the device.

The Ethernet connection must be made using Connector2 of HD67801-KNX-xxx-B2 with at least a Category 5E cable. The maximum length of the cable should not exceed 100m. The cable has to conform to the T568 norms relative to connections in cat.5 up to 100 Mbps. To connect the device to an Hub/Switch is recommended the use of a straight cable, to connect the device to a PC is recommended the use of a cross cable.



## USE OF COMPOSITOR SW67801:

To configure the Converter, use the available software that runs with Windows called SW67801. It is downloadable on the site [www.adfweb.com](http://www.adfweb.com) and its operation is described in this document. (*This manual is referenced to the last version of the software present on our web site*). The software works with MSWindows (XP, Vista, Seven, 8; 32/64bit).

When launching the SW67801, the window below appears (Fig. 2).



### Note:

It is necessary to have installed .Net Framework 4.

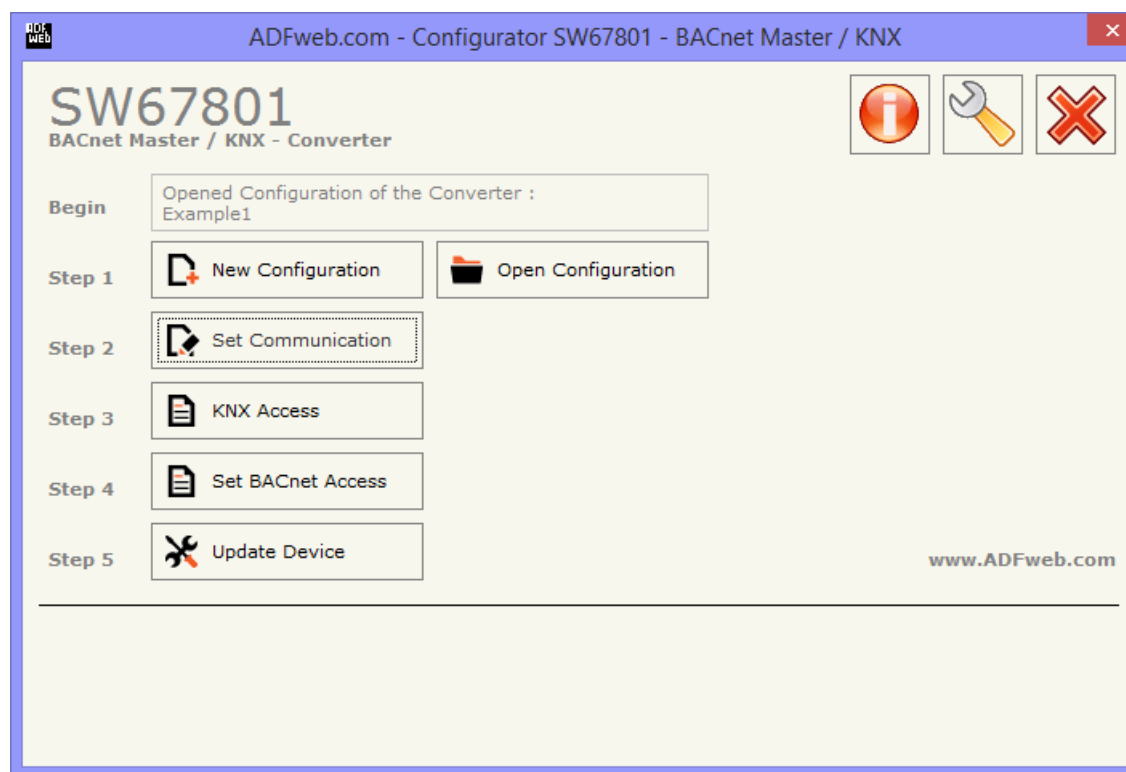
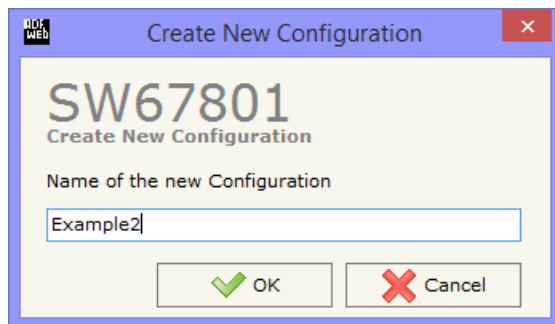


Figure 2: Main window for SW67801

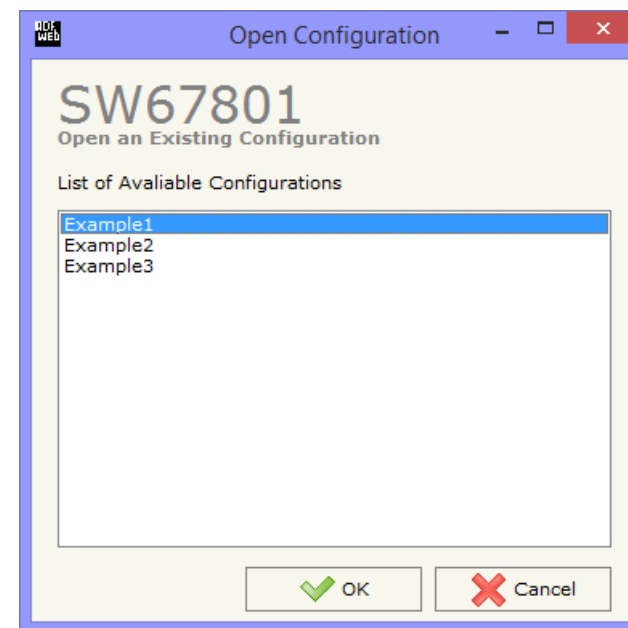
**NEW CONFIGURATION / OPEN CONFIGURATION:**

The “**New Configuration**” button creates the folder which contains the entire device’s configuration.




A device’s configuration can also be imported or exported:

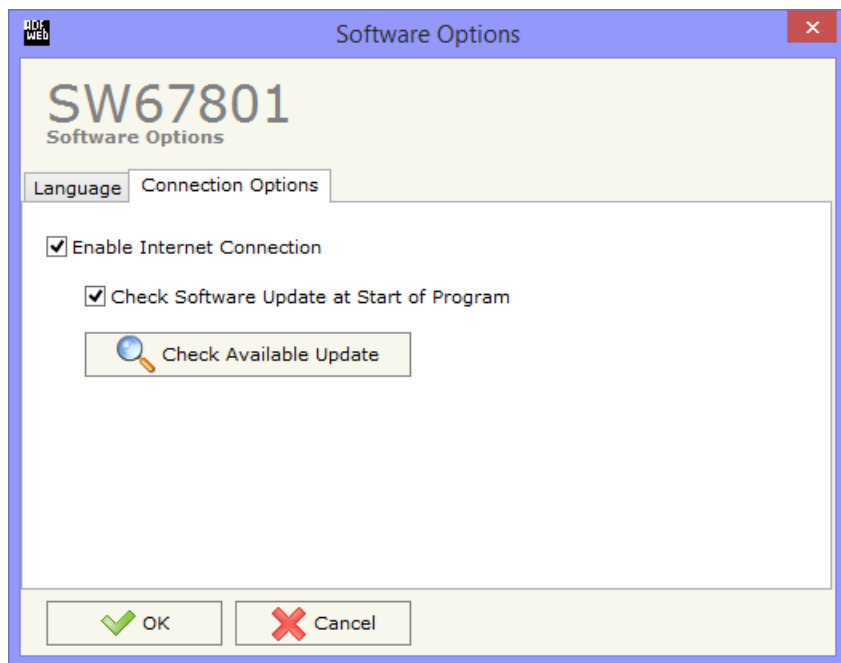
- To clone the configurations of a Programmable “BACnet Master / KNX - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button “**Open Configuration**”.



**SOFTWARE OPTIONS:**

By pressing the “**Settings**” () button there is the possibility to change the language of the software and check the updatings for the compositor.

In the section “Language” it is possible to change the language of the software.



In the section “Connection Options”, it is possible to check if there are some updatings of the software compositor in ADFweb.com website. Checking the option “**Check Software Update at Start of Program**”, the SW67801 check automatically if there are updatings when it is launched.



**SET COMMUNICATION:**

This section define the fundamental communication parameters of two buses, KNX and BACnet.

By Pressing the **"Set Communication"** button from the main window for SW67801 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in two sections, one for the KNX and one for the BACnet.

In the section "BACnet Type" is possible to select the type of BACnet to use from:

- BACnet/IP (it uses ethernet);
- BACnet MS/TP (it uses RS485).

If selected "BACnet/IP" the means of the fields for "BACnet" are:

- In the fields **"IP ADDRESS"** insert the IP address that you want to give to the Converter;
- In the fields **"SUBNET Mask"** insert the SubNet Mask;
- In the fields **"GATEWAY"** insert the default gateway that you want to use. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;
- In the field **"Port"** the port used for BACnet communication is defined. The default port used for BACnet communication is 47808, but is possible to insert any value (except 10000 and 10001);
- In the field **"BACnet Device Name"** is possible to assign a name to the BACnet node;
- In the field **"Device Instance"** is possible to assign a number to the BACnet node (Used for the Device Instance).

The screenshot shows the 'Set Communication' window for device SW67801. It is divided into two main sections: BACnet and KNX. The BACnet section is currently active and shows the following settings: BACnet Type is set to BACnet/IP; IP Address is 192.168.0.10; Subnet Mask is 255.255.255.0; Gateway is 192.168.0.1 (with a checkbox for GATEWAY that is unchecked); Port is 47808; BACnet Device Name is devicename1; and Device Instance is 0. The KNX section is collapsed and shows Type set to KNX TP and ID Device set to 1.1.200. At the bottom of the window, there are 'OK' and 'Cancel' buttons.

Figure 3: "Set Communication" window

If selected "BACnet MS/TP" the means of the fields for "BACnet" are:

- In the field "**Baudrate**" it is possible to select the baudrate of the BACnet line (1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200);
- In the field "**Parity**" it is possible to select the parity of the line (None, Odd, Even);
- In the field "**BACnet Device Name**" is possible to insert the name to give to the BACnet node (maximum 17 characters);
- In the field "**MAC Address**" is possible to define the MAC of BACnet node (from 0 to 254);
- The field "**Max Masters**" specifies the highest allowable address for master nodes. The value shall be less than or equal to 127;
- The field "**Max Info Frames**" specifies the maximum number of information frames the node may send before it must pass the token;
- In the field "**Device Instance**" is possible to assign a number to the BACnet node (Used for the Device Instance).

The means of the fields for the "Ethernet Update" section are:

- In the fields "**IP ADDRESS**" insert the IP address that you want to give to the Converter;
- In the fields "**SUBNET Mask**" insert the SubNet Mask;
- In the fields "**GATEWAY**" insert the default gateway that you want to use. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net.

These information are used for programming the Converter.

The means of the fields for "KNX" are:

- In the field "**Type**" the type of KNX is defined (fixed to 'KNX TP');
- In the field "**ID Device**" the ID of the KNX side of the converter is defined.

SW67801  
Set Communication Setting

BACnet Type  
Type BACnet MS/TP

BACnet  
Baudrate 1200  
Parity NONE

BACnet Device Name  
devicename1

MAC Address 0  
Max Master 1  
Max Info Frames 1  
Device Instance 0

Ethernet Update  
IP ADDRESS  
192 . 168 . 0 . 10  
SUBNET Mask  
255 . 255 . 255 . 0  
 GATEWAY  
192 . 168 . 0 . 1

KNX  
Type KNX TP  
ID Device 1.1.200

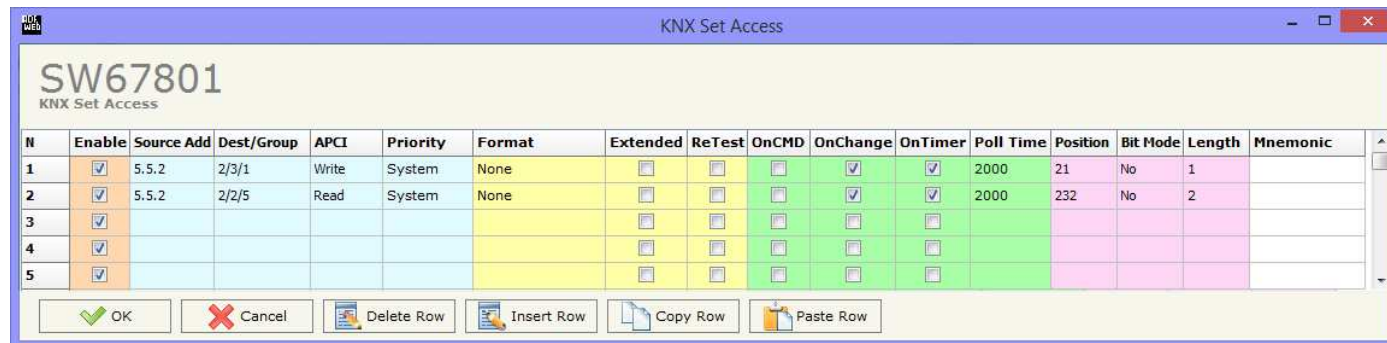
OK Cancel

## KNX ACCESS:

By pressing the **KNX Access** button from the main window for SW67801 (Fig. 2) the "KNX Access" window appears (Fig. 4).

The means of the fields are:


- ✦ If the field **Enable** is checked, the KNX message is enabled;
- ✦ In the field **Source Address** the Source Address to assign to the KNX message is defined;
- ✦ In the field **Dest/Group** the Group address (2 level structure, 3 level structure or free address structure) or the device address is defined. In case of Group address, the levels must be separated by '/', in case of Device address, the parts of the address must be separated by '.';
- ✦ In the field **APCI** the APCI of the KNX message is defined. You can choose between the following:
  - Read: it is used to send a reading request to a KNX device;
  - Write: it is used to send a writing request to a KNX device;
  - Specific value (edited manually).
- ✦ In the field **Priority** the Priority of the KNX message is defined. You can choose between the following:
  - System (Highest);
  - Urgent;
  - Normal;
  - Low (Lowest).
- ✦ In the field **Format** the data format of the KNX message is defined;
- ✦ If the field **Extended** is checked, the extended format of the KNX message is used;
- ✦ If the field **ReTest** is checked, the KNX message is re-sent in case of not correct response;
- ✦ If the field **On Change** is checked, the gateway sends the KNX command when the data on BACnet change the value;
- ✦ If the field **On Timer** is checked, the gateway sends the KNX command cyclically;
- ✦ In the field **Poll Time** the delay in ms between two KNX commands is defined (if "On Timer" is checked);
- ✦ In the field **Position** insert the address of the internal array where placing the information;




N	Enable	Source Add	Dest/Group	APCI	Priority	Format	Extended	ReTest	OnCMD	OnChange	OnTimer	Poll Time	Position	Bit Mode	Length	Mnemonic
1	<input checked="" type="checkbox"/>	5.5.2	2/3/1	Write	System	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2000	21	No	1	
2	<input checked="" type="checkbox"/>	5.5.2	2/2/5	Read	System	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2000	232	No	2	
3	<input checked="" type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
4	<input checked="" type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
5	<input checked="" type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Figure 4: "KNX Set Access" window

- ✦ In the field "**Bit Mode**" insert the start bit of the first byte of the field "Position" where start to insert the data read;
- ✦ In the field "**Lenght**" the dimension of the KNX message is defined;
- ✦ In the field "**Mnemonic**" the description for the request is defined.

 Note:  
If the field "On change" is checked and the "Poll Time" is different from 0, the converter sends the KNX command cyclically and also when the data is changed.

 Note:  
If the field "OnChange" and "OnTimer" are not checked, the converter only sniffs the bus in order to monitor the status of the KNX message.

**SET BACNET ACCESS:**

By Pressing the “**Set BACnet Access**” button from the main window of SW67801 (Fig. 2), the window “Set BACnet Access” appears (Fig. 6).

The window is divided in two parts, the “**BACnet in Read**” that contains the BACnet objects that the Converter goes to read from the slaves; and “**BACnet in Write**” that contains the BACnet objects that the Converter goes to write into the slaves.

The means of the fields in the window (Read) are the follows:

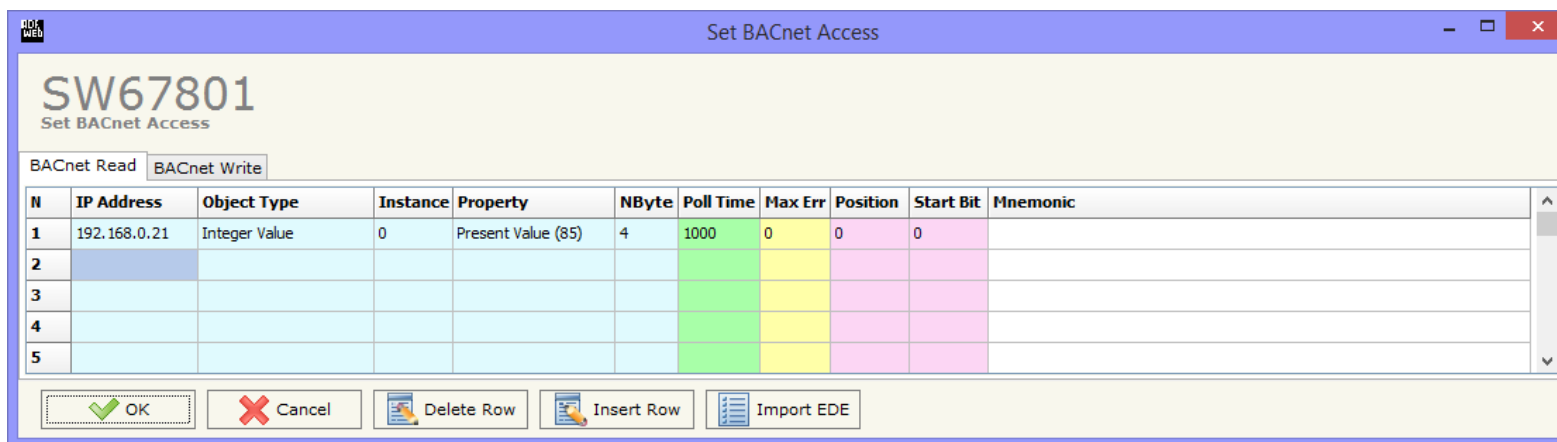


Figure 6a: “BACnet Set Access → BACnet Read” window

- In the field “**IP Address**” insert the IP address of the slave that contains the data to be read (ID for the BACnet MS/TP);
- In the field “**Object Type**” select the object to be read;
- In the field “**Instance**”, define the instance number of the object;
- In the field “**Property**” select the property to be read;
- In the field “**NByte**”, define the number of bytes to read on the request;
- In the field “**Poll Time**” define the frequency of the request;
- In the field “**Max Error**” insert the number of consecutive errors that the Master waits before discard the row from the cycle of requests;
- In the field “**Position**” is possible to select the position where save the data into a 1440 bytes array;
- The field “**Start Bit**” is used for the “Binary Input” and “Binary Output” BACnet objects. Is possible to select the position in the byte where save the data;
- In the field “**Mnemonic**” is possible to insert a description of the data inserted in the row.

The means of the fields in the window (Write) are the follows:

- In the field "**IP Address**" insert the IP address of the slave where the data are written (ID for the BACnet MS/TP);
- In the field "**Object Type**" select the object to be written;
- In the field "**Instance**", define the instance number of the object;
- In the field "**Property**" select the property to be written;
- In the field "**NByte**", define the number of bytes sent in the request;
- By checking the field "**Change**" the BACnet write request is made only if KNX data are changed; otherwise (if is selected the field "**Timer**") is sent cyclically, using the "Poll Time";
- In the field "**Poll Time**" define the frequency of the request;
- In the field "**Max Error**" insert the number of consecutive errors that the Master waits before discard the row from the cycle of requests;
- In the field "**Position**" is possible to select the position where take the data to write in the request from a 1440 bytes array;
- The field "**Start Bit**" is used for the "Binary Output" BACnet objects. Is possible to select the position in the byte where save the data;
- In the field "**Mnemonic**" is possible to insert a description of the data inserted in the row.

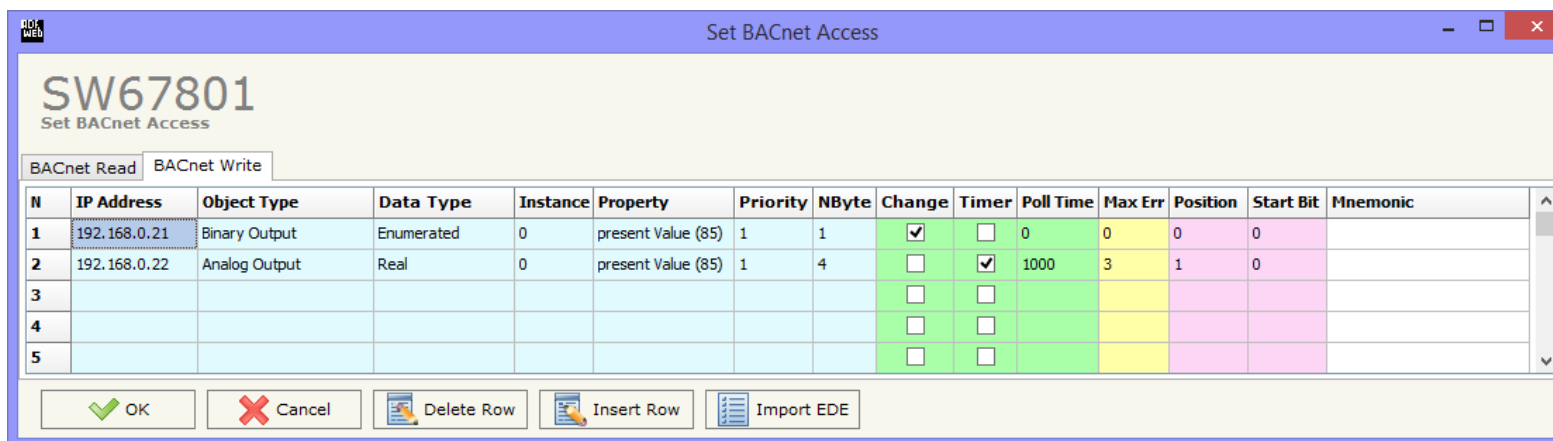


Figure 6b: "BACnet Set Access → BACnet Write" window

**UPDATE DEVICE:**

By pressing the **"Update Device"** button, it is possible to load the created Configuration into the device; and also the Firmware, if necessary.

If you don't know the actual IP address of the device you have to use this procedure:

- Turn off the Device;
- Put Dip1 of 'Dip-Switch A' in ON position;
- Turn on the device
- Connect the Ethernet cable;
- Insert the IP **"192.168.2.205"**;
- Press the **"Ping"** button, "Device Found!" must appear;
- Press the **"Next"** button;
- Select which operations you want to do;
- Press the **"Execute update firmware"** button to start the upload;
- When all the operations are "OK" turn off the Device;
- Put Dip1 of 'Dip-Switch A' at OFF position;
- Turn on the device.

At this point the configuration/firmware on the device is correctly updated.

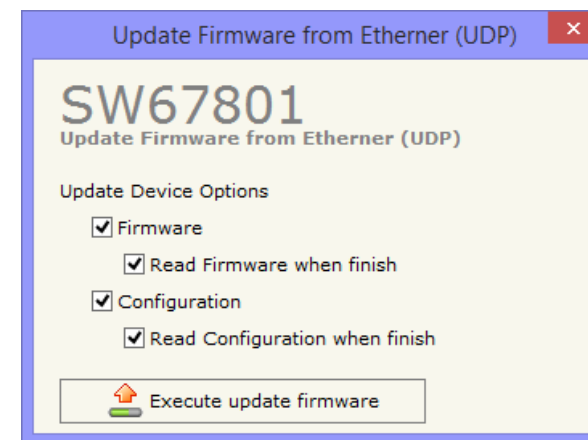
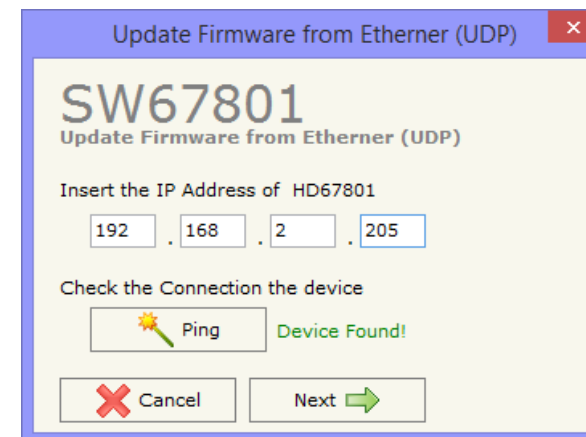


Figure 7: "Update device" windows

If you know the actual IP address of the device, you have to use this procedure:

- Turn on the Device with the Ethernet cable inserted;
- Insert the actual IP of the Converter;
- Press the "**Ping**" button, must appear "Device Found!";
- Press the "**Next**" button;
- Select which operations you want to do;
- Press the "**Execute update firmware**" button to start the upload;
- When all the operations are "OK" the device automatically goes at Normal Mode.

At this point the configuration/firmware on the device is correctly update.



Note:

When you install a new version of the software, if it is the first time it is better you do the update of the Firmware in the HD67801 device.



Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67801 device.



Warning:

If Fig. 9 appears when you try to do the Update try these points before seeking assistance:

- Try to repeat the operations for the updating;
- Try with another PC;
- Try to restart the PC;
- If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- If you are using Windows Seven or Vista or 8, make sure that you have the administrator privileges;
- Take attention at Firewall lock;
- Check the LAN settings.



In the case of HD67801 you have to use the software "SW67801": [www.adfweb.com/download/filefold/SW67801.zip](http://www.adfweb.com/download/filefold/SW67801.zip).

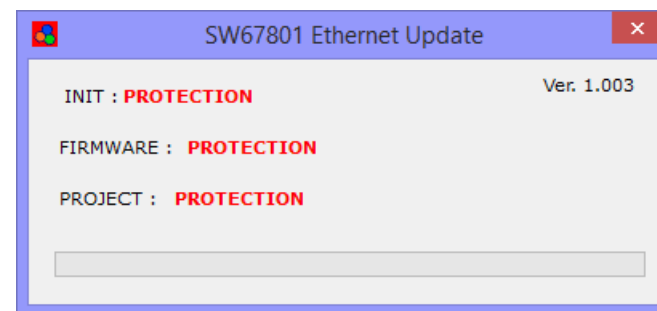
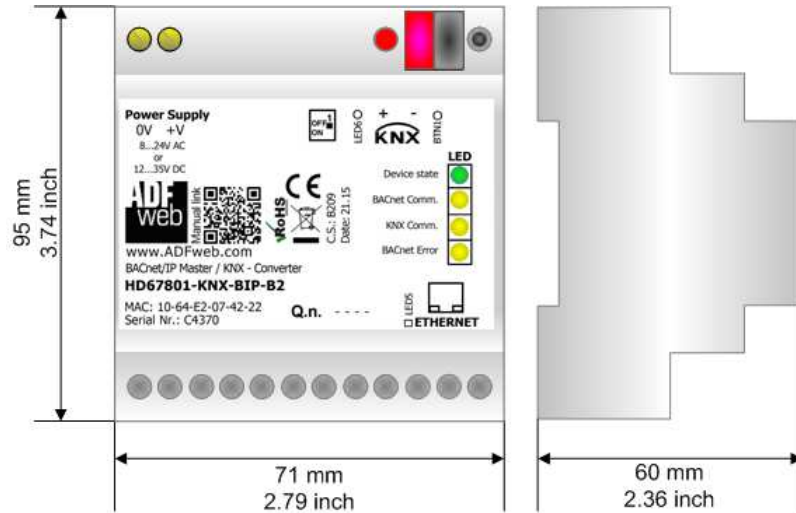


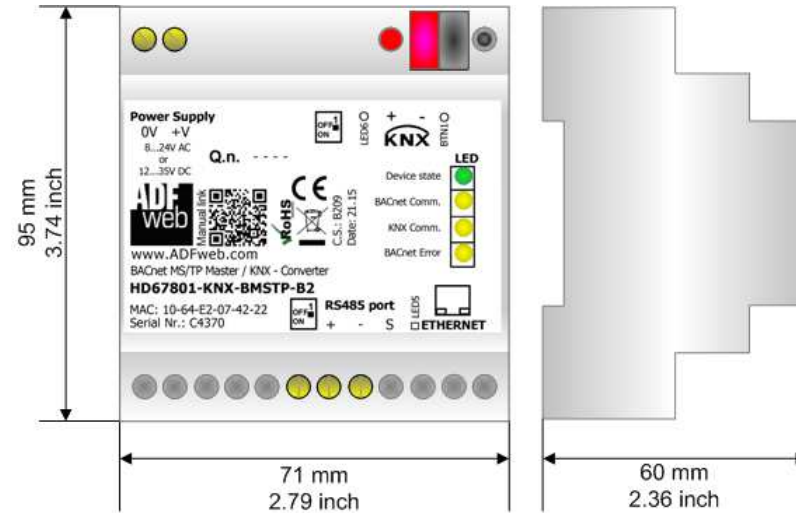
Figure 8: "Protection" window



**MECHANICAL DIMENSIONS:**



Housing: PVC  
Weight: 200g (Approx)



Housing: PVC  
Weight: 200g (Approx)

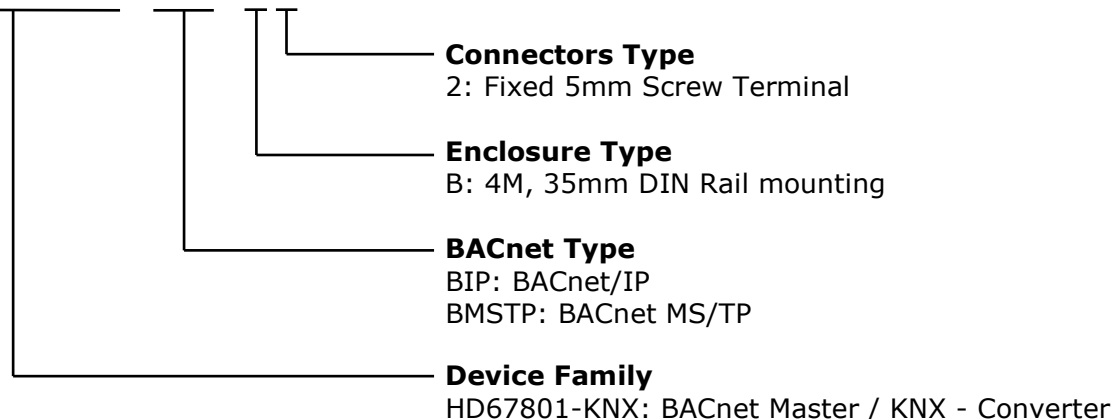
Figure 10a: Mechanical dimensions scheme for HD67801-KNX-BIP-B2

Figure 10b: Mechanical dimensions scheme for HD67801-KNX-BMSTP-B2

**ORDERING INFORMATIONS:**

The ordering part number is formed by a valid combination of the following:

**HD67801 – KNX – xxx – B 2**



- Order Code: **HD67801-KNX-BIP-B2** - BACnet/IP Master / KNX – Converter
- Order Code: **HD67801-KNX-BMSTP-B2** - BACnet MS/TP Master / KNX – Converter

**ACCESSORIES:**

- Order Code: **AC34001** - 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz – 12 V AC
- Order Code: **AC34002** - 35mm Rail DIN - Power Supply 110V AC 50/60Hz – 12 V AC

**DISCLAIMER:**

All technical content within this document can be modified without notice. The content of the document is a under continual renewal. For losses due to fire, earthquake, third party access or other accidents, or intentional or accidental abuse, misuse, or use under abnormal conditions repairs are charged to the user. ADFweb.com S.r.l. will not be liable for accidental loss of use or inability to use this product, such as loss of business income. ADFweb.com S.r.l. shall not be liable for consequences of improper use.

**OTHER REGULATIONS AND STANDARDS:****WEEE INFORMATION**

Disposal of old electrical and electronic equipment (as in the European Union and other European countries with separate collection systems).

— This symbol on the product or on its packaging indicates that this product may not be treated as household rubbish. Instead, it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. If the product is disposed correctly, you will help prevent potential negative environmental factors and impact of human health, which could otherwise be caused by inappropriate disposal. The recycling of materials will help to conserve natural resources. For more information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

**RESTRICTION OF HAZARDOUS SUBSTANCES DIRECTIVE**

The device respects the 2002/95/EC Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (commonly referred to as Restriction of Hazardous Substances Directive or RoHS).

**CE MARKING**

The product conforms with the essential requirements of the applicable EC directives.

**WARRANTIES AND TECHNICAL SUPPORT:**

For fast and easy technical support for your ADFweb.com SRL products, consult our internet support at [www.adfweb.com](http://www.adfweb.com).  
Otherwise contact us at the address [support@adfweb.com](mailto:support@adfweb.com)

**RETURN POLICY:**

If while using your product you have any problem and you wish to exchange or repair it, please do the following:

- Obtain a Product Return Number (PRN) from our internet support at [www.adfweb.com](http://www.adfweb.com). Together with the request, you need to provide detailed information about the problem.
- Send the product to the address provided with the PRN, having prepaid the shipping costs (shipment costs billed to us will not be accepted).

If the product is within the warranty of twelve months, it will be repaired or exchanged and returned within three weeks. If the product is no longer under warranty, you will receive a repair estimate.

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