

## User Manual

Revision 1.100

English

### BACnet Slave / Modbus TCP Slave - Converter

(Order Code: HD67674-IP-A1, HD67674-MSTP-A1, HD67674-MSTP-B2, HD67674-PTP-A1, HD67674-PTP-B2)

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#### Benefits and Main Features:

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



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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	17/06/2013	Fl	All	First Release
1.001	27/05/2014	Fl	All	Revision
1.100	17/12/2015	Ff	All	Added MS/TP version

**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:

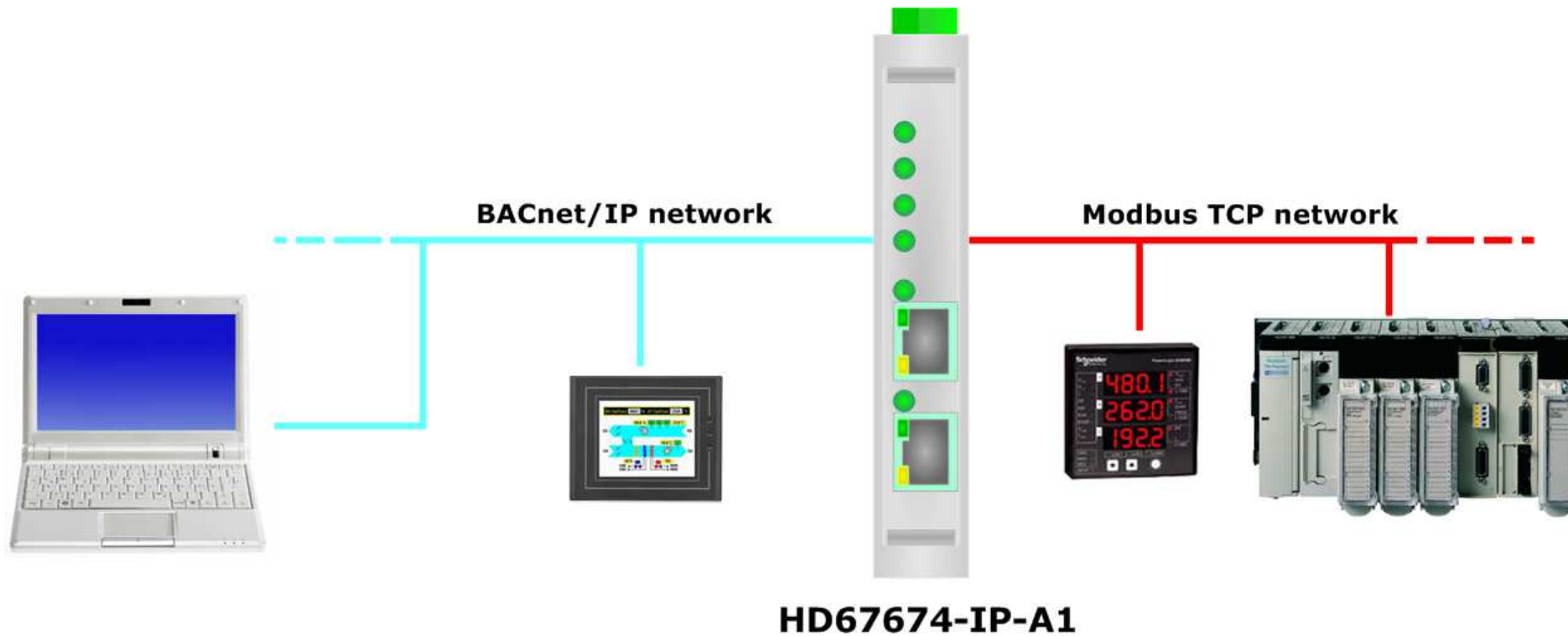


This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

**CE CONFORMITY**

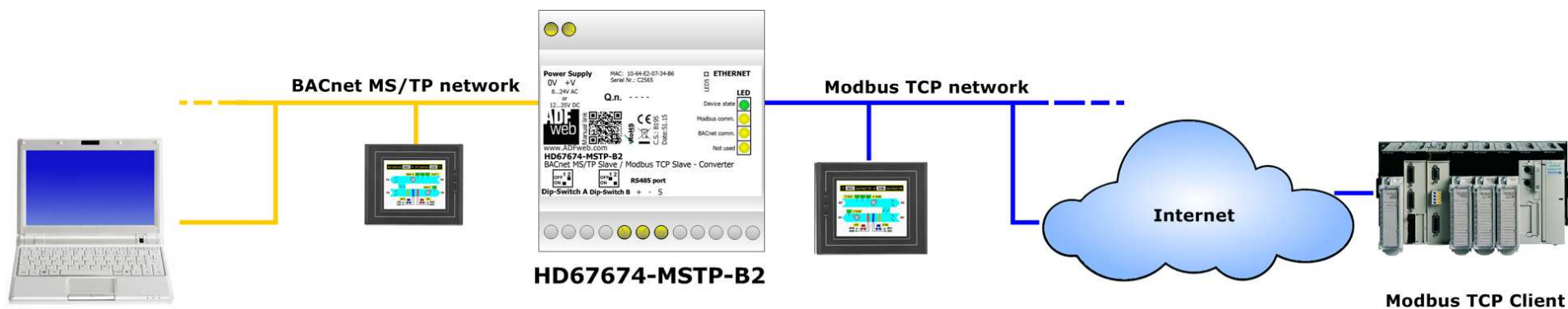
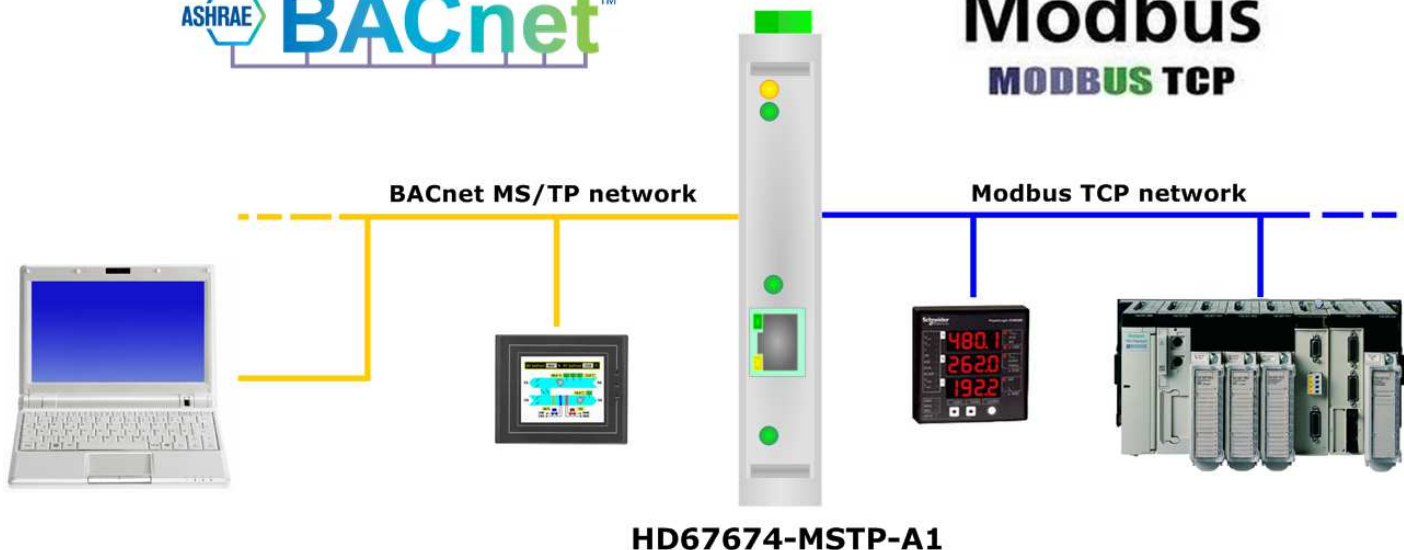
The declaration is made by our company. You can send an email to [or](#) give us a call if you need it.

**EXAMPLE OF CONNECTION:**





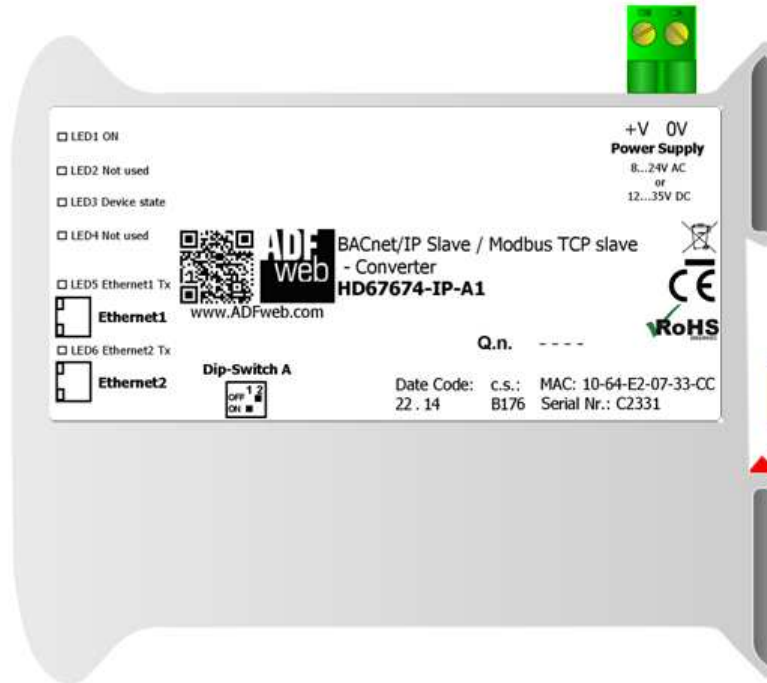
**Modbus**  
**MODBUS TCP**



**CONNECTION SCHEME:**

**Dip-Switch A:**  
 -Dip1 - Must be at ON  
 -Dip2 - Functioning Mode

= Normal    = Boot



- Led1:** Green ON
- Led2:** Green Not used
- Led3:** Green Device state
- Led4:** Green Not used
- Led5:** Green Not used
- Connector3:** Ethernet1 Port (RJ45 Plug)
- Led6:** Green Not used
- Connector4:** Ethernet2 Port (RJ45 Plug)

Rail DIN Clamp



**Connector1:**  
 Power Supply port  
 0V = Ground  
 +V = Positive wire  
 V AC: min 8V ; max 24V  
 V DC: min 12V ; max 35V

Figure 1a: Connection scheme for HD67674-IP-A1

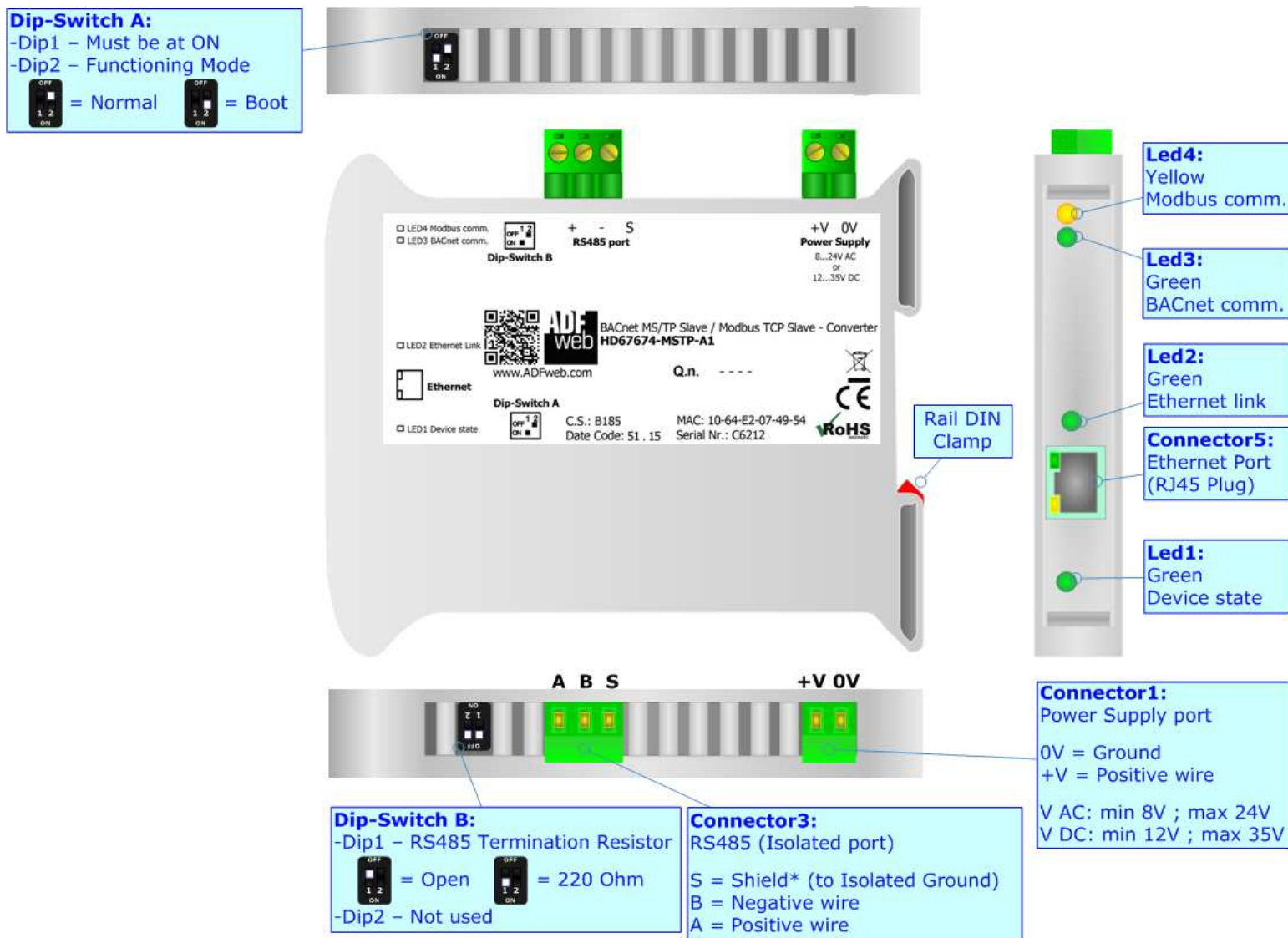


Figure 1b: Connection scheme for HD67674-MSTP-A1



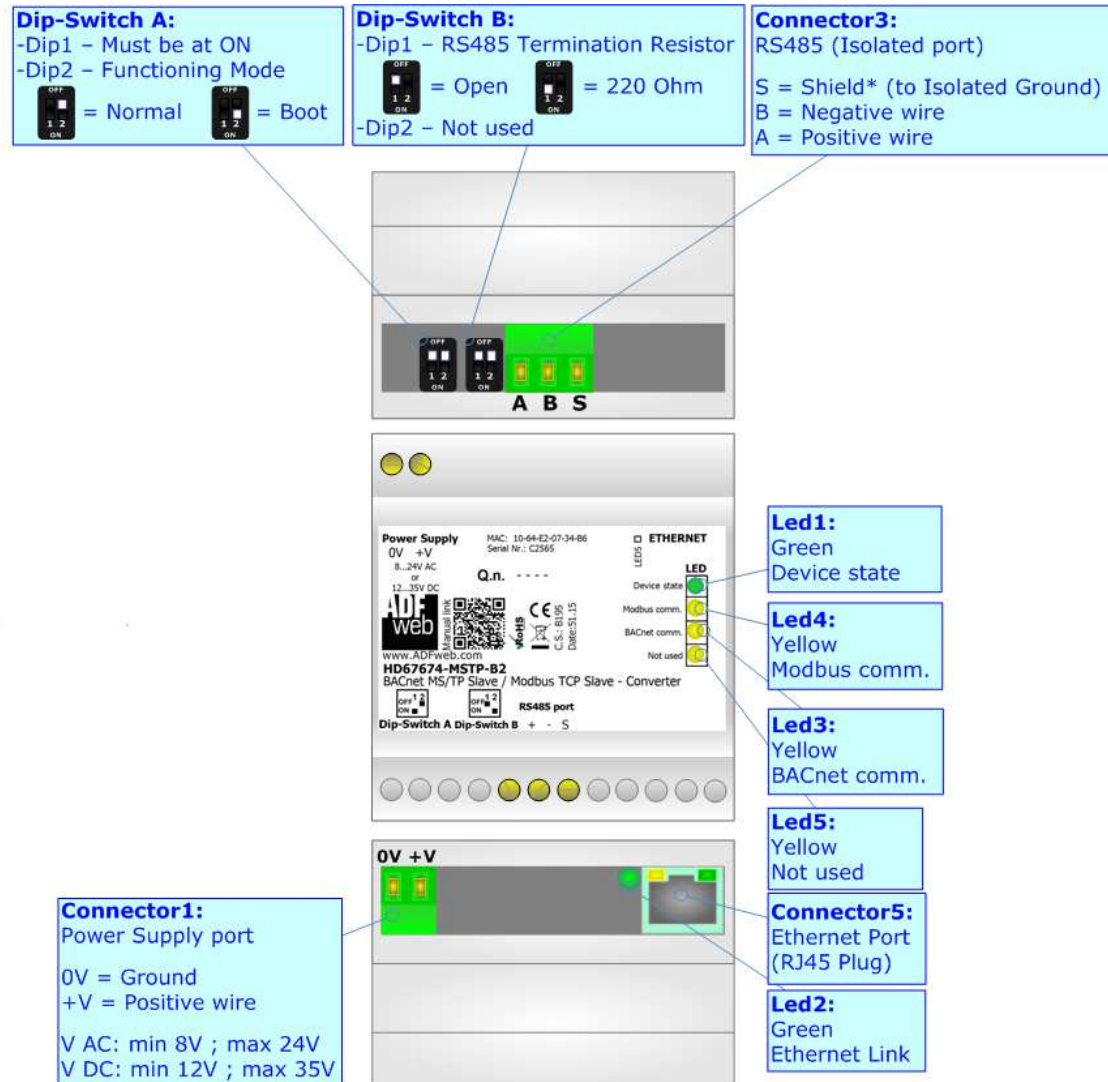


Figure 1c: Connection scheme for HD67674-MSTP-B2





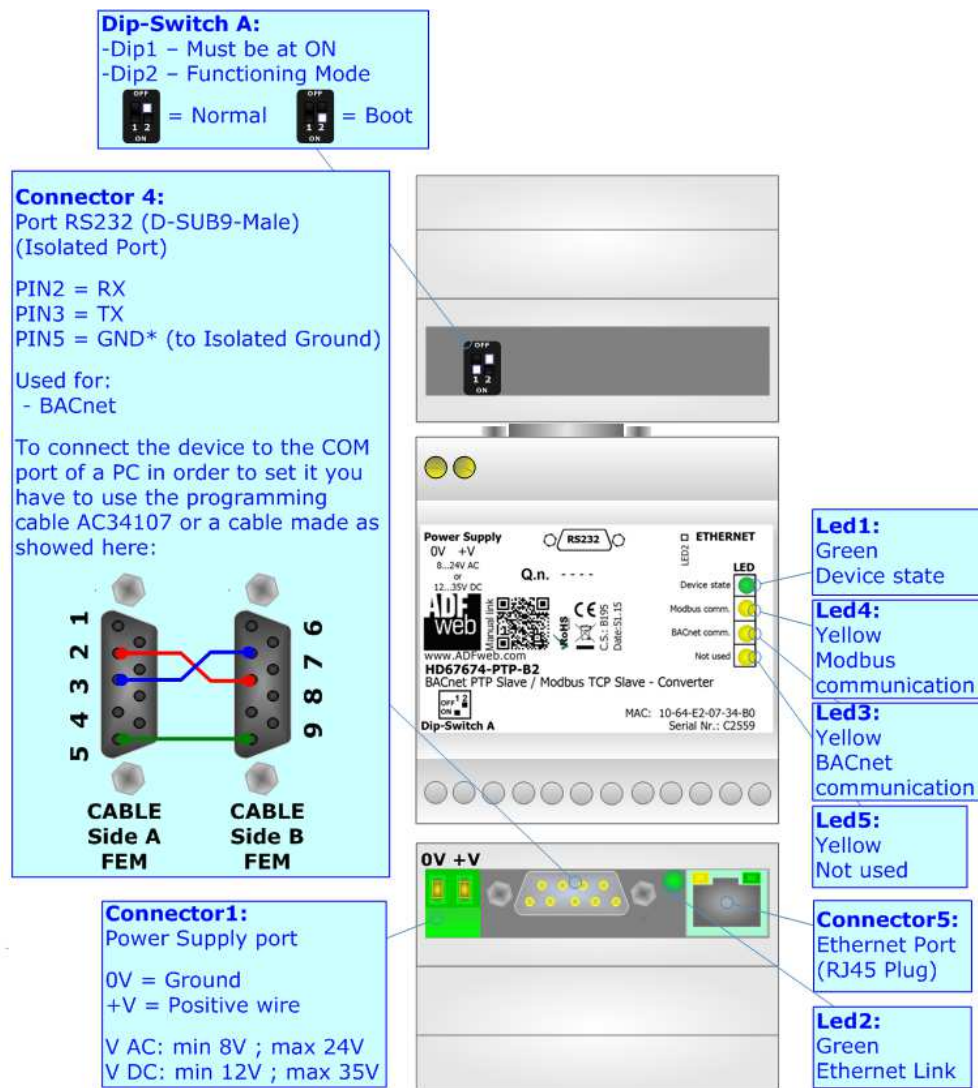


Figure 1e: Connection scheme for HD67674-PTP-B2

**CHARACTERISTICS:**

The HD67674-xxx-A1/B2 are BACnet Slave to Modbus TCP Slave and vice-versa converters.

They allow the following characteristics:

- Up to 2000 BACnet objects (Read+Write);
- Triple isolation between BACnet - Power Supply, BACnet - Modbus, Power Supply - Modbus.
- Two-directional information between BACnet bus and Modbus TCP 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 SW67674 software on your PC in order to perform the following:

- Define the parameter of BACnet line;
- Define the parameter of Modbus TCP line;
- Define BACnet objects that contains the data sent by the Master Modbus;
- Define BACnet objects that contains the data to send to the Master Modbus;
- Update the device.

**POWER SUPPLY:**

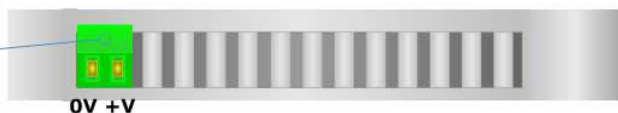
The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

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

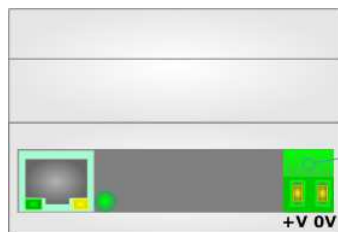
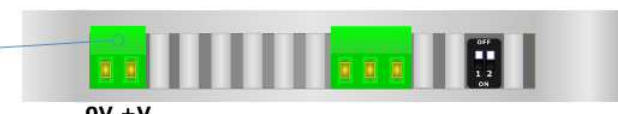
Consumption at 24V DC:

Device	Consumption [W/VA]
HD67674-IP-A1	3.5
HD67674-MSTP-A1/B2	3.5
HD67674-PTP-A1/B2	3.5

**Connector1:**  
Power Supply port  
0V = Ground  
+V = Positive wire  
V AC: min 8V ; max 24V  
V DC: min 12V ; max 35V

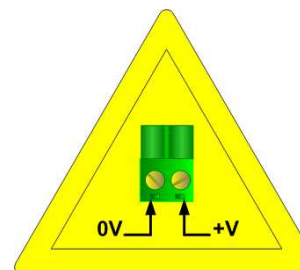


**Connector1:**  
Power Supply port  
0V = Ground  
+V = Positive wire  
V AC: min 8V ; max 24V  
V DC: min 12V ; max 35V

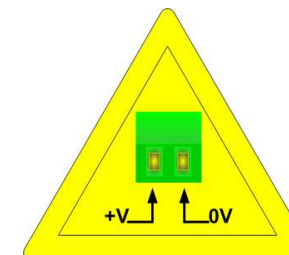


**Connector1:**  
Power Supply port  
0V = Ground  
+V = Positive wire  
V AC: min 8V ; max 24V  
V DC: min 12V ; max 35V

**Caution: Not reverse the polarity power**



HD67674-A1  
HD67674-MSTP-A1  
HD67674-PTP-A1



HD67674-MSTP-B2  
HD67674-PTP-B2

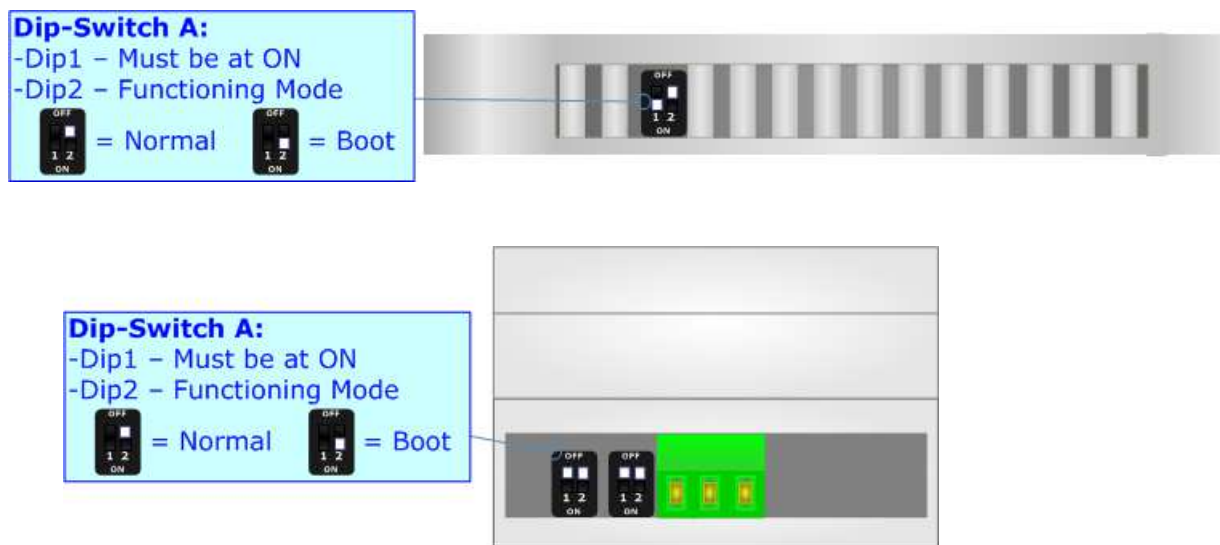
**FUNCTION MODES:**

The device has got two functions mode depending of the position of the 'Dip2 of Dip-Switch A':

- The first, with 'Dip2 of Dip-Switch A' at "OFF" position, is used for the normal working of the device.
- The second, with 'Dip2 of Dip-Switch A' at "ON" position, is used for uploading 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.

**Warning:**

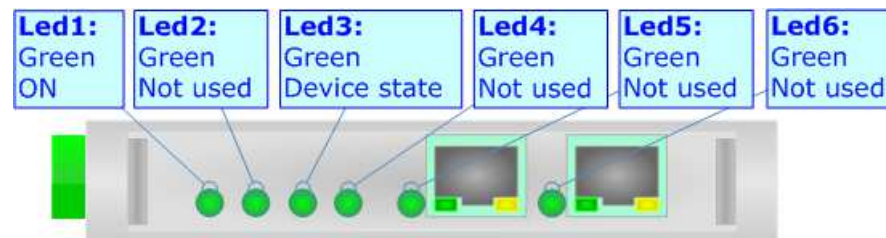
Dip1 of 'Dip-Switch A' must be at ON position to work even if the Ethernet cable is not inserted.

**LEDS:**

HD67674-IP-A1

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

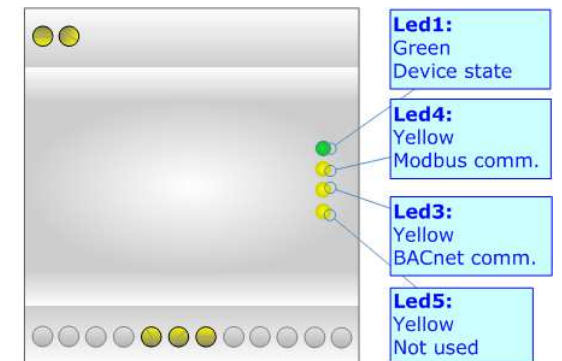
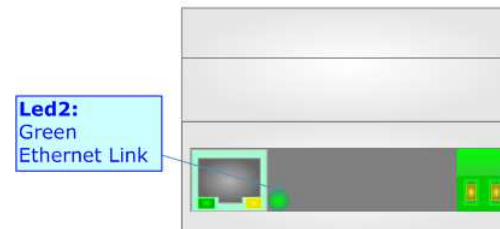
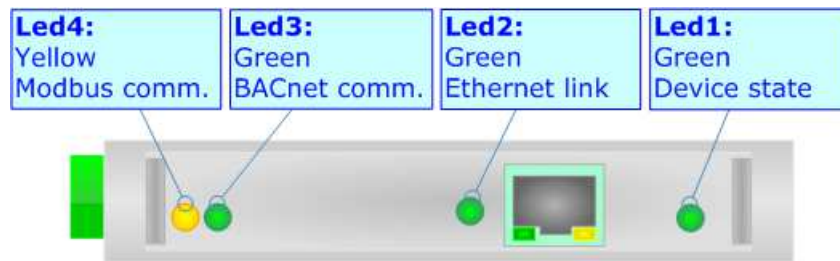
LED	Normal Mode	Boot Mode
1: ON [supply voltage ] (green)	<b>ON:</b> Device powered <b>OFF:</b> Device not powered	<b>ON:</b> Device powered <b>OFF:</b> Device not powered
2: Not used (green)	OFF	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
3: Device state (green)	Blinks slowly (~1Hz)	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
4: Not used (green)	OFF	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
5: Not used (green)	OFF	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
6: Not used (green)	OFF	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress



HD67674-MSTP-A1/B2, HD67674-PTP-A1/B2

The device has four LEDs (five in the B2 versions) that are used to give information of the functioning status.  
The various meanings of the LEDs are described in the table below.

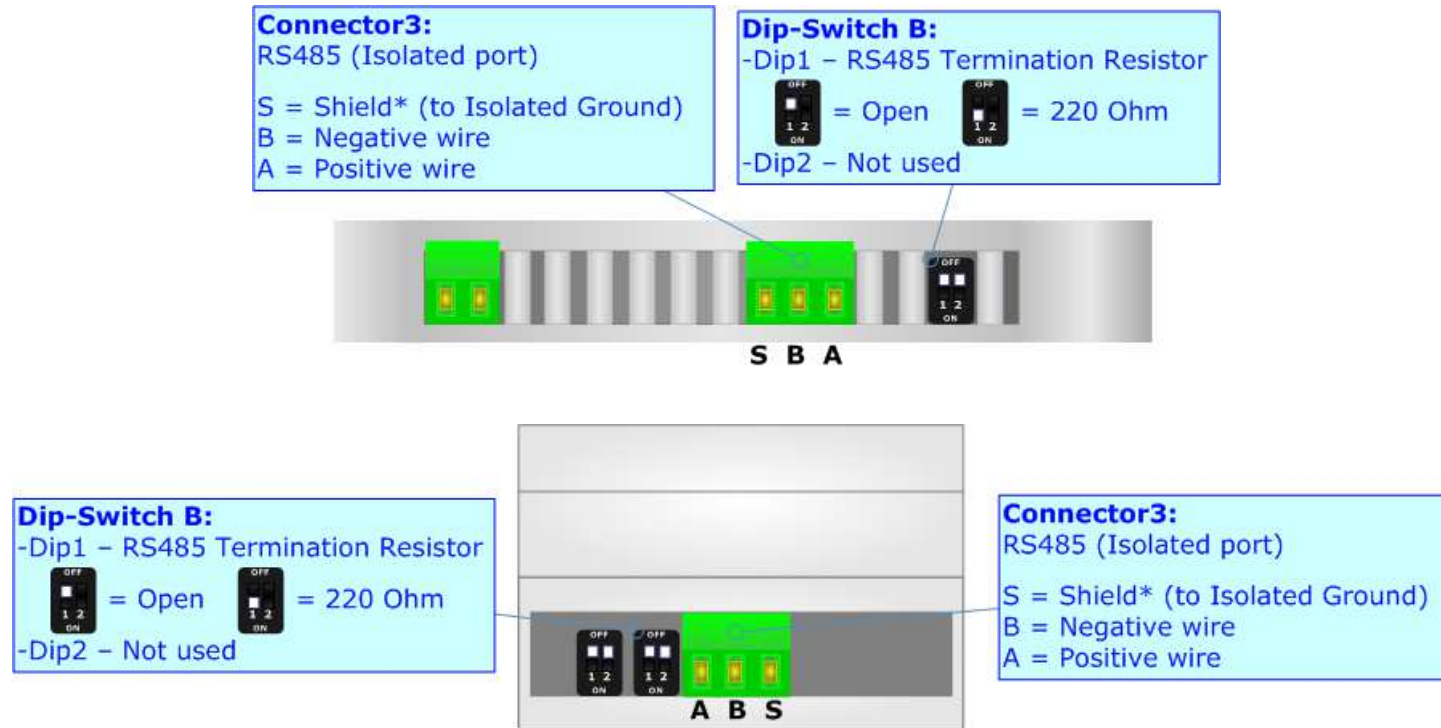
LED	Normal Mode	Boot Mode
1: Device State	Blinks slowly (~1Hz)	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
2: Link Ethernet	<b>ON:</b> Ethernet cable connected <b>OFF:</b> Ethernet cable disconnected	<b>ON:</b> Ethernet cable connected <b>OFF:</b> Ethernet cable disconnected
3: BACnet communication	Blinks quickly when receive a BACnet request	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
4: Modbus comm.	Changes state when a Modbus request is received	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
5: Not used	OFF	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress





**RS485 (for HD67674-MSTP-A1/B2):**

To 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).

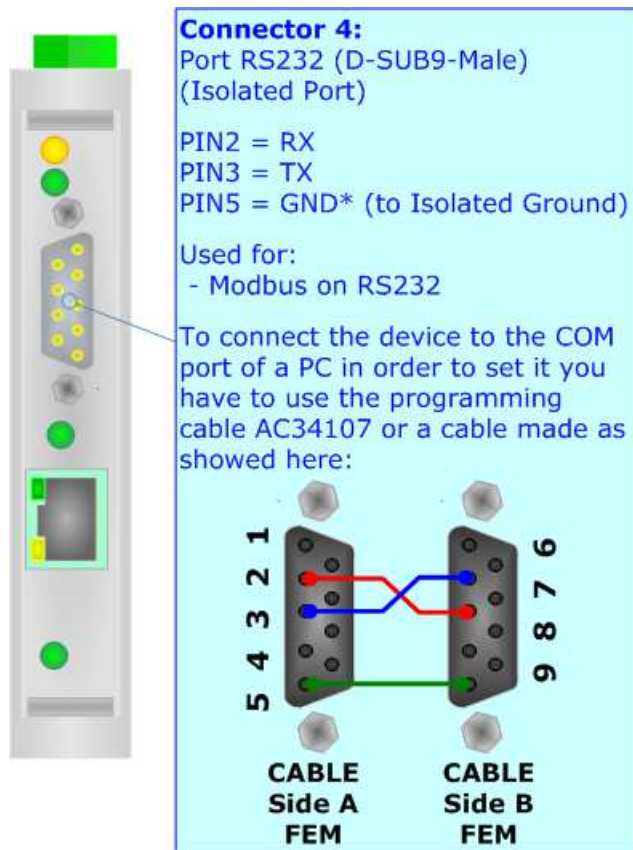
Here some codes of cables:

- 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.

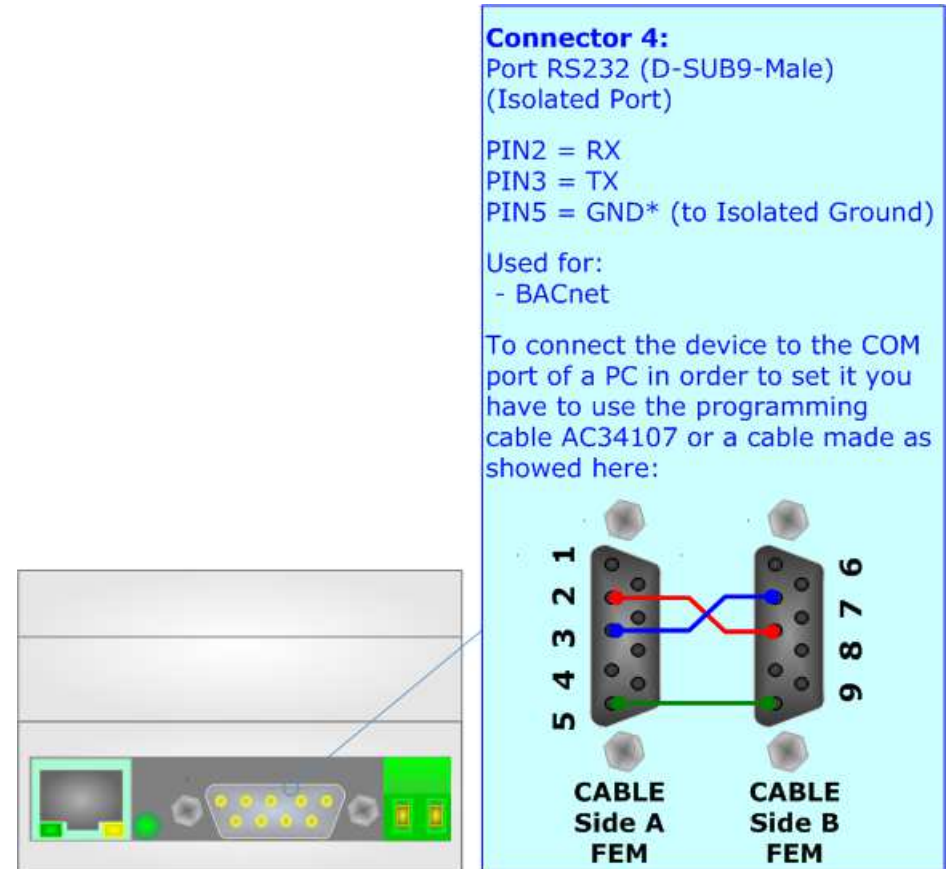
**RS232 (for HD67674-PTP-A1/B2):**

The connection from RS232 socket to a serial port (example one from a personal computer) must be made with a NULL MODEM cable (a serial cable where the pins 2 and 3 are crossed). It is recommended that the RS232 cable not exceed 15 meters.

HD67674-PTP-A1



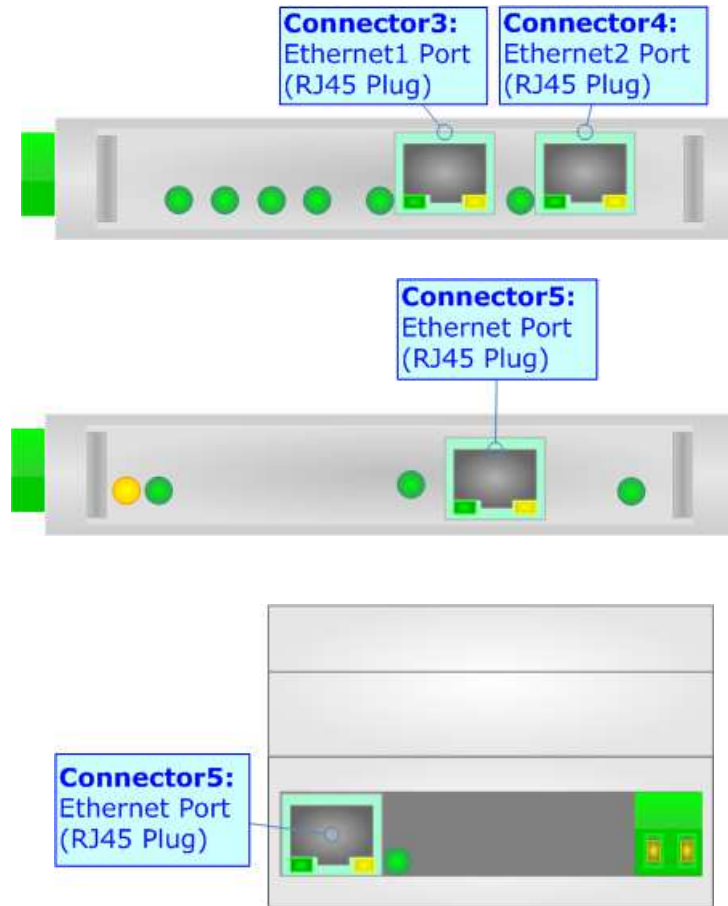
HD67674-PTP-B2



**ETHERNET:**

The Ethernet ports are used for BACnet/IP communication and for programming the devices.

The Ethernet connection must be made using Connector3 and/or Connector4 and/or Connector5 of HD67674 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/PLC/other is recommended the use of a cross cable.



### USE OF COMPOSITOR SW67674:

To configure the Converter, use the available software that runs with Windows called SW67674. It is downloadable from 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, 10; 32/64bit).

When launching the SW67674, the window below appears (Fig. 2).



**Note:**

It is necessary to have installed .Net Framework 4.

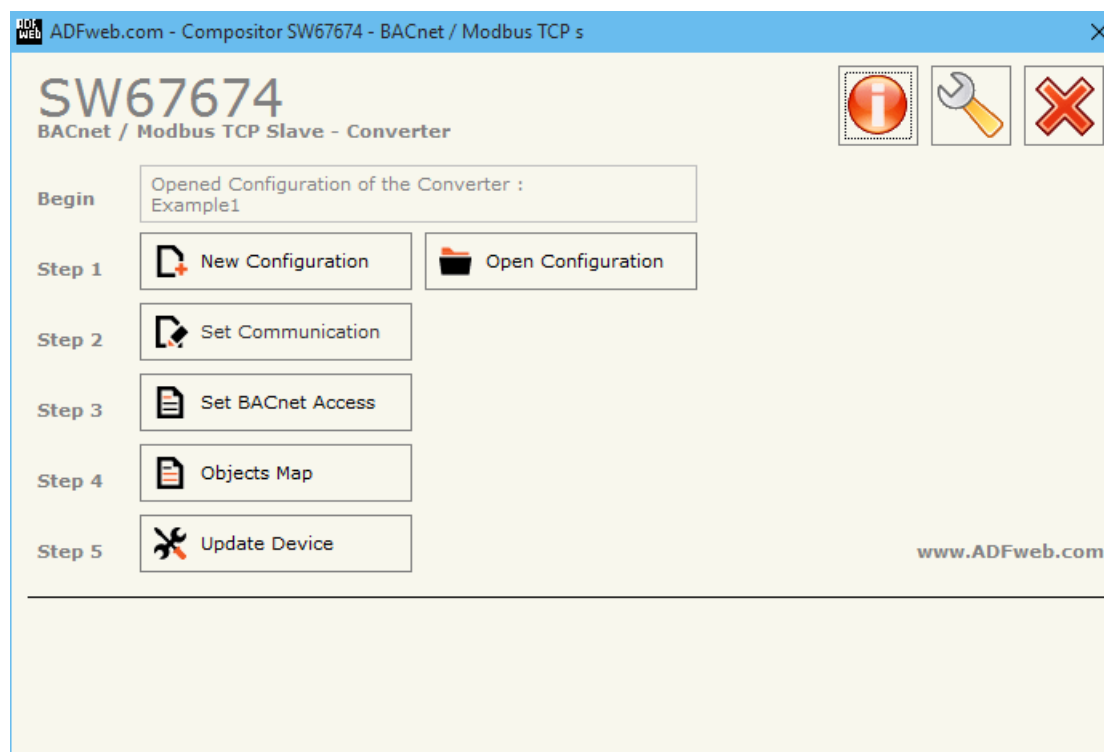
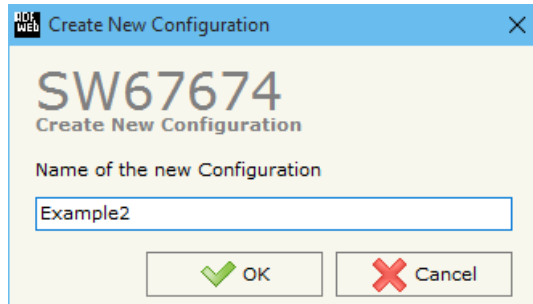


Figure 2: Main window for SW67674

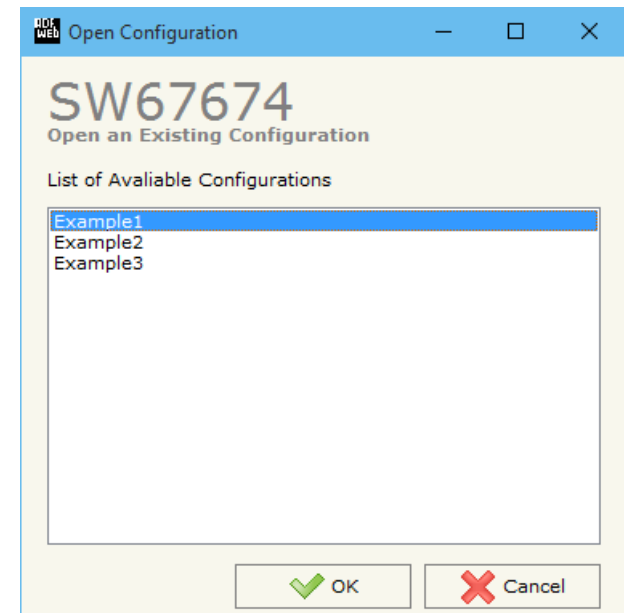
**NEW CONFIGURATION / OPEN CONFIGURATION:**

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




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

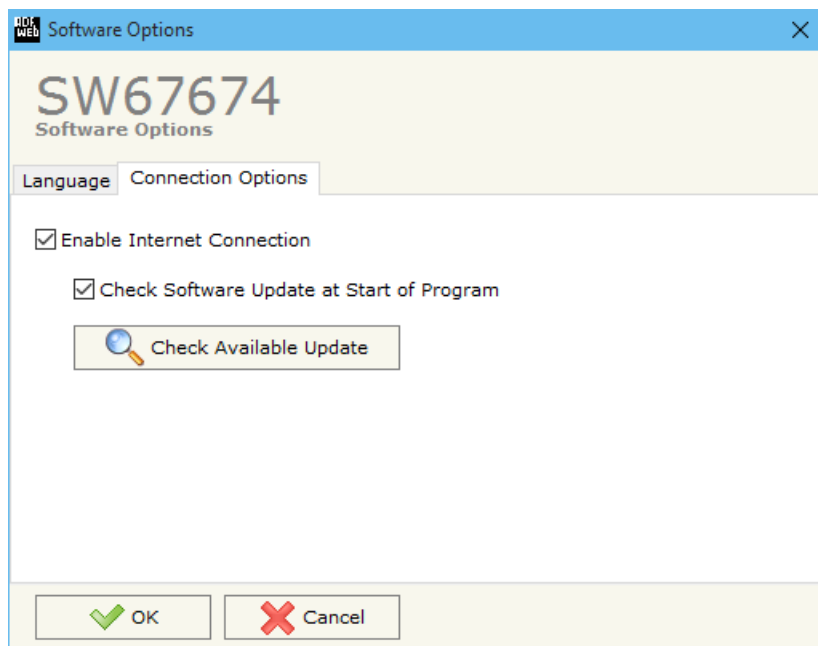
- To clone the configurations of a Programmable “BACnet slave / Modbus TCP slave - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient 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 SW67674 check automatically if there are updatings when it is launched.

## SET COMMUNICATION:

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

By Pressing the **"Set Communication"** button from the main window for SW67674 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in three sections, one for selecting the type of BACnet (in relation to the device bought), one for the BACnet parameters and the other for the Modbus TCP parameters.

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);
- BACnet PTP (it uses RS232).

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

- In the field **"IP ADDRESS"** insert the IP address that you want to give to the Converter;
- In the field **"SUBNET Mask"** insert the SubNet Mask;
- In the field **"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"** it is possible to assign a name to the BACnet node;
- In the field **"Device Identifier"** it is possible to assign a number to the BACnet node (Used for the Device Identifier).

The means of the fields for "Modbus TCP Slave" section are:

- In the field **"Port"** the port used for Modbus TCP communication is defined.

The screenshot shows a software window titled "Set Communication" for device "SW67674". The window is divided into three main sections. The first section, "BACnet Type", has a dropdown menu set to "BACnet/IP". The second section, "BACnet", contains several fields: "IP ADDRESS" (192.168.0.5), "SUBNET Mask" (255.255.255.0), a "GATEWAY" checkbox (unchecked), "Port" (47808), "BACnet Device Name" (devicename1), and "Device Identifier" (1). The third section, "Modbus TCP Slave", has a "Port" field set to 502. At the bottom of the window, there are "OK" and "Cancel" buttons.

Figure 3: "Set Communication" window



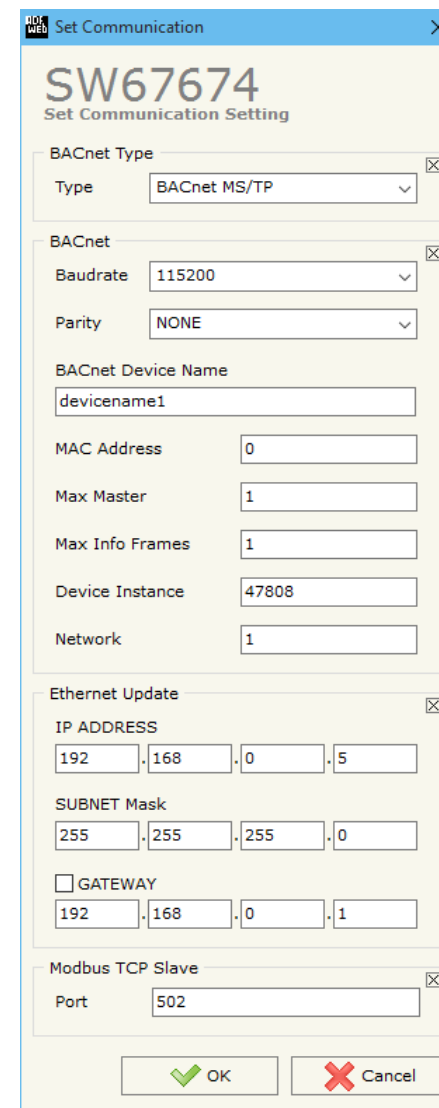
If selected "BACnet MS/TP" the means of the fields for "BACnet" are:

- In the field "**Baudrate**" it is possible to select the baudrate of the BACnet (9600, 19200, 38400, 57600, 76800, 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**" it 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**" it is possible to assign a number to the BACnet node (Used for the Device Instance);
- In the field "**Network**" it is possible to define the number of the MS/TP network.

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 informations are used for programming the Converter.



**Set Communication**

**SW67674**  
Set Communication Setting

BACnet Type

Type

BACnet

Baudrate

Parity

BACnet Device Name

MAC Address

Max Master

Max Info Frames

Device Instance

Network

Ethernet Update

IP ADDRESS  .  .  .

SUBNET Mask  .  .  .

GATEWAY  .  .  .

Modbus TCP Slave

Port

### SET BACNET ACCESS:

By Pressing the **“Set BACnet Access ”** button from the main window for SW67674 (Fig. 2) the window **“BACnet Set Access”** appears (Fig. 4).

The window is divided in two parts, the **“BACnet in Read”** that contains the BACnet objects readable by a BACnet master (the Modbus registers associated to these objects are writeable by a Modbus master); and **“BACnet in Write”** that contains the BACnet objects writeable by a BACnet master (the Modbus registers associated to these objects are readable by a Modbus master).

The meaning of the fields in the window are the follows:

- In the field **“Data Type”** is possible to select the BACnet object data type. The available options are: analog-input, analog-output, binary-input, binary-output, positive-integer-value, large-analog-value, integer-value;
- In the field **“Eng. Unit”**, with double click the window **“Select the BACnet Engineering Unit”** appears (Fig. 5);
- In the field **“Position”** is possible to select the position where take/save the data from a 1400 bytes array;
- The field **“Start Bit”** is used for the “Binary In” and “Binary Out” BACnet objects;
- The field **“Length”** is used for all the others BACnet objects.

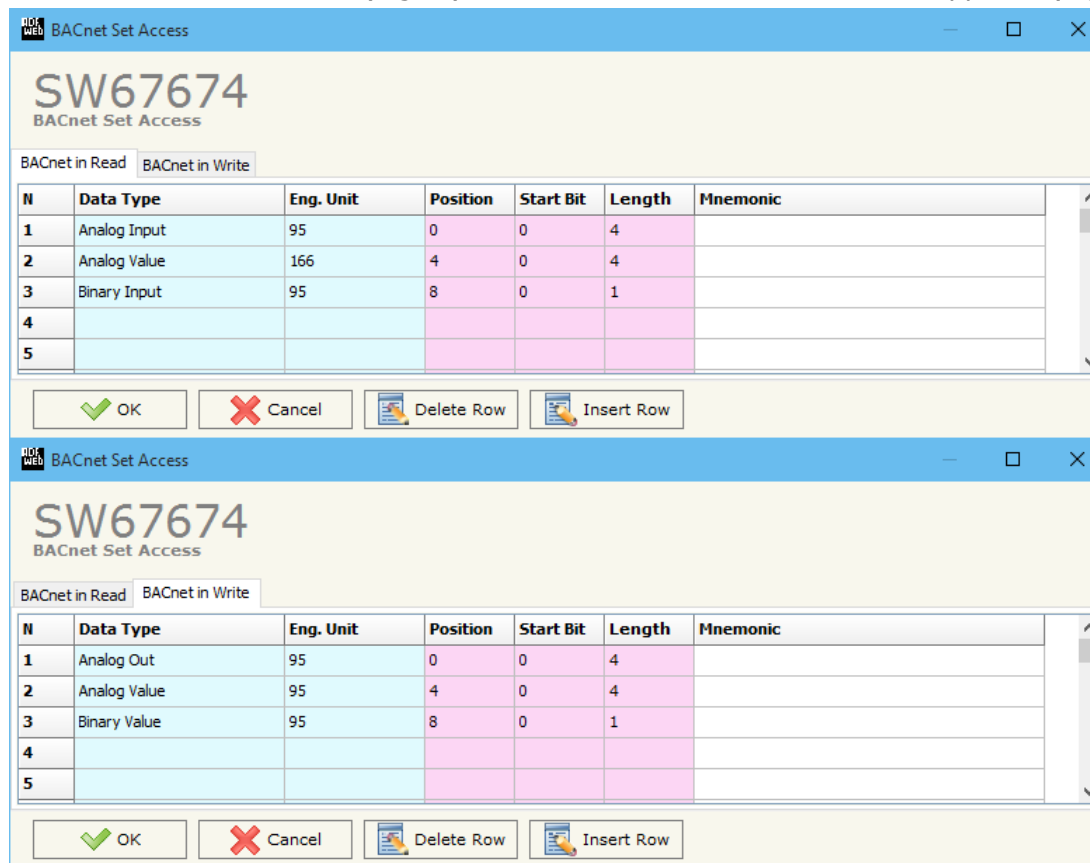


Figure 4: “BACnet Set Access” window



**Note:**

For the BACnet objects defined in the section “BACnet in Read” is possible to read the ‘present-value’ property; for the BACnet objects defined in the section “BACnet in Write” is possible to write/read the ‘present-value’ property.

It is possible to insert directly the Unit (using its unique number) by compiling the **"Selected BACnet Engineering Unit"** field; or by selecting with the fields **"Select the Type"** and **"Select unit"** the Type/Unit desired. If the second way is used, is necessary to press the **"Select Engineering Unit"** button for confirm the choice.

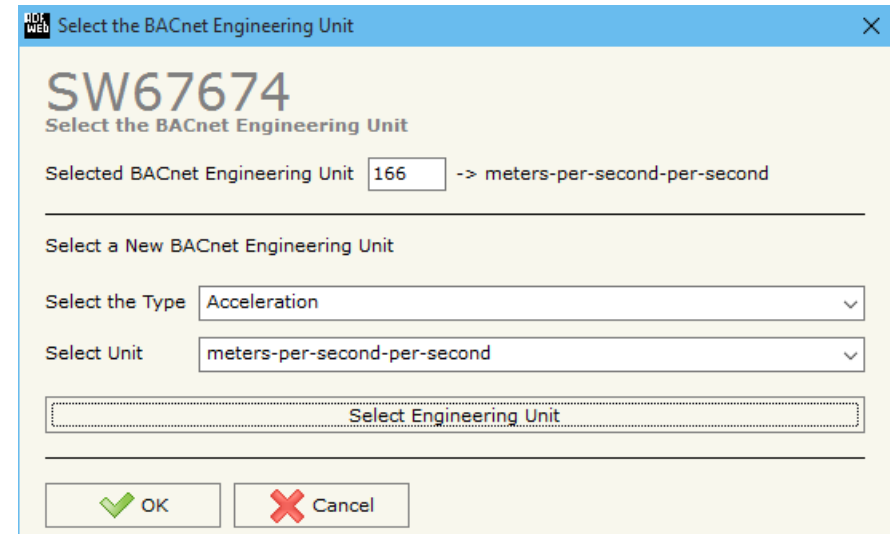


Figure 5: "Select the BACnet Engineering Unit" window

#### OBJECTS MAP:

By Pressing the **"Objects Map"** button from the main window for SW67674 (Fig. 2) is possible to create a .csv document with the map of BACnet Objects.

## 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 Dip2 of 'Dip-Switch A' at 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 Dip2 of 'Dip-Switch A' at OFF position;
- Turn on the device.

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

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 updated.

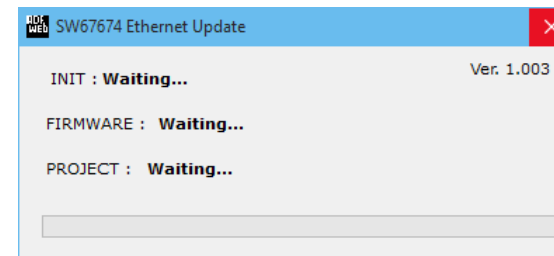
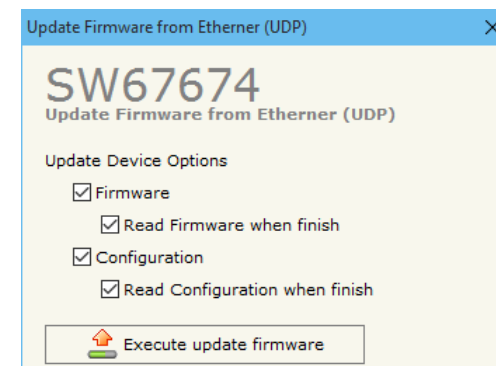
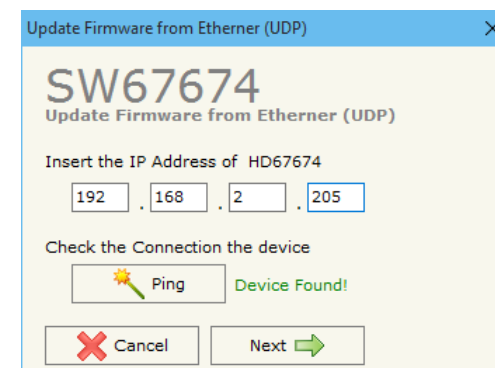


Figure 6: “Update device” windows

**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 HD67674 device.

**Note:**

When you receive the device, for the first time, you also have to update the Firmware in the HD67674 device.

**Warning:**

If Fig. 7 appears when you try to do the Update try these points before seeking assistance:

- Try to repeat the operations for the updating;
- Try to repeat the operations for the updating;
- Try with another PC;
- Try to restart the PC;
- Check the LAN settings;
- Check the Wi-Fi settings;
- If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- If you are using Windows Seven, Vista, 8 or 10 make sure that you have the administrator privileges;
- In case you have to program more than one device, using the "UDP Update", you have to cancel the ARP table every time you connect a new device on Ethernet. For do this you have to launch the "Command Prompt" and write the command "arp -d". Pay attention that with Windows Vista, Seven, 8, 10 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.

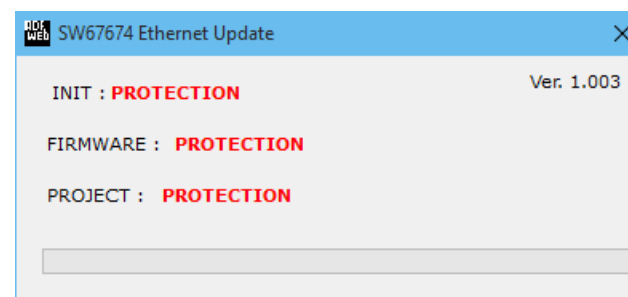
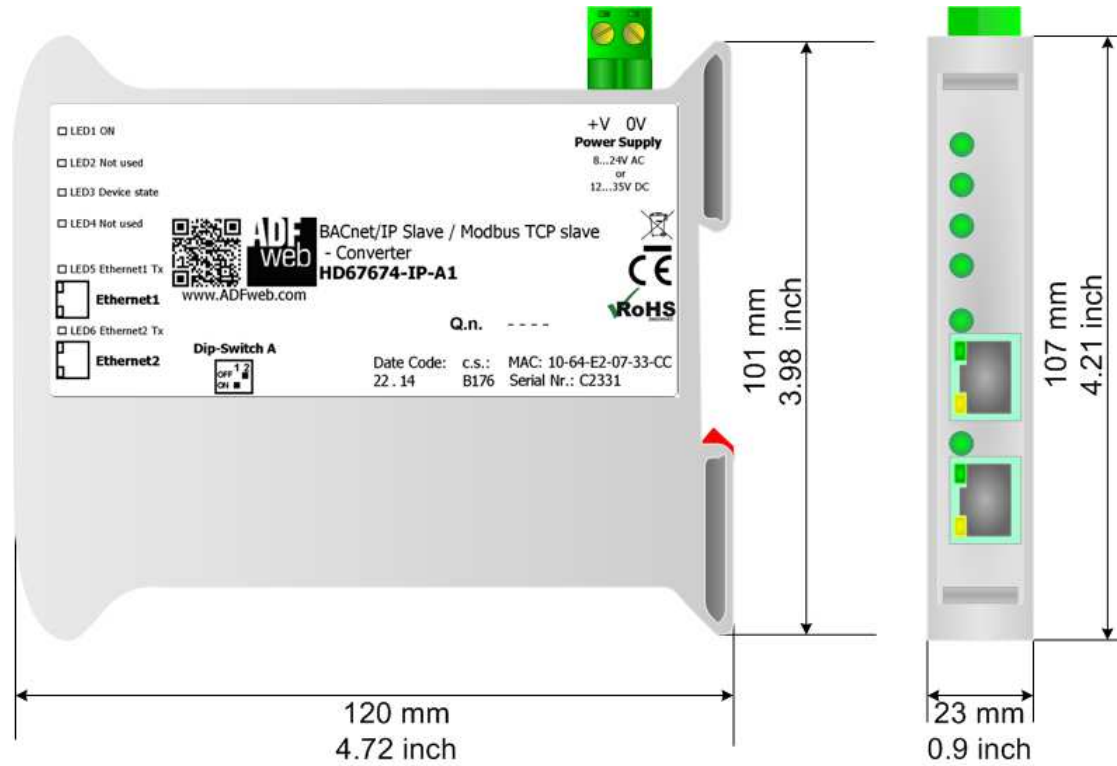


Figure 7: "Protection" window



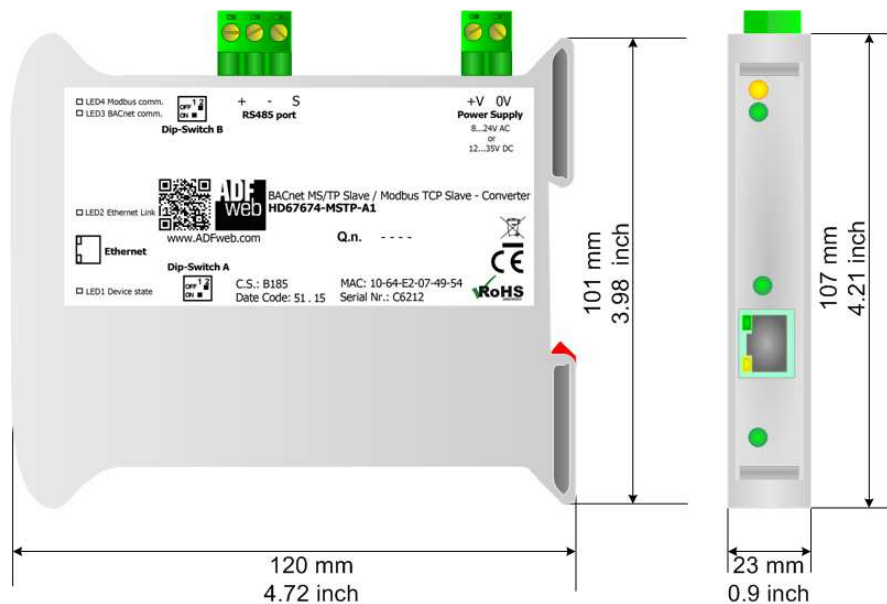
In the case of HD67674 you have to use the software "SW67674": [www.adfweb.com/download/filefold/SW67674.zip](http://www.adfweb.com/download/filefold/SW67674.zip).

**MECHANICAL DIMENSIONS:**



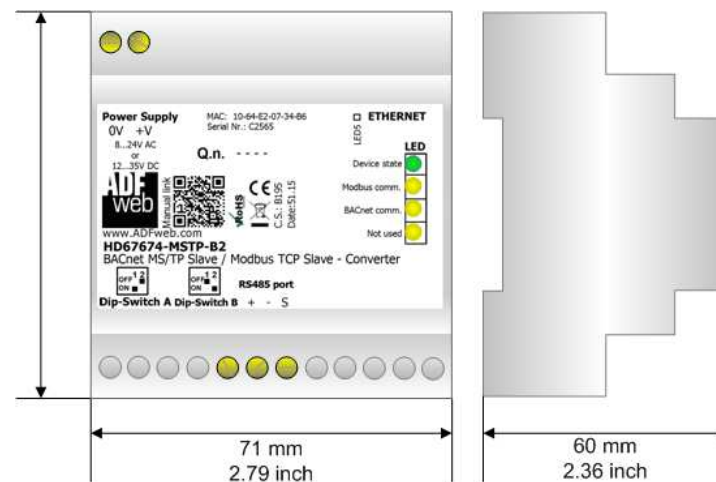
Housing: PVC  
Weight: 200g (Approx)

Figure 8a: Mechanical dimensions scheme for HD67674-IP-A1



Housing: PVC  
Weight: 200g (Approx)

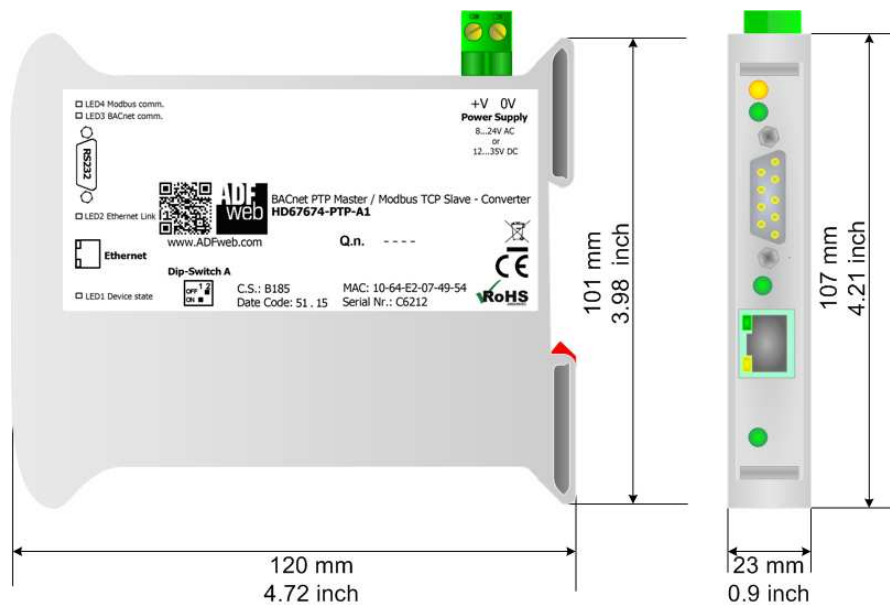
Figure 8b: Mechanical dimensions scheme for HD67674-MSTP-A1



Housing: PVC  
Weight: 200g (Approx)

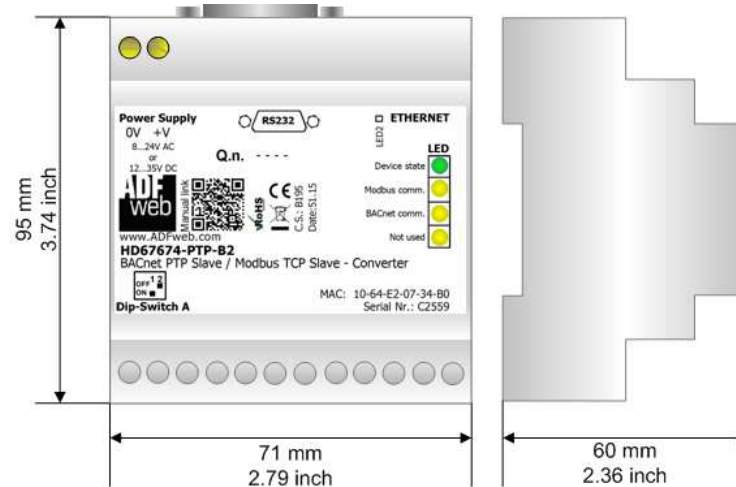
Figure 8c: Mechanical dimensions scheme for HD67674-MSTP-B2





Housing: PVC  
Weight: 200g (Approx)

Figure 8d: Mechanical dimensions scheme for HD67674-PTP-A1



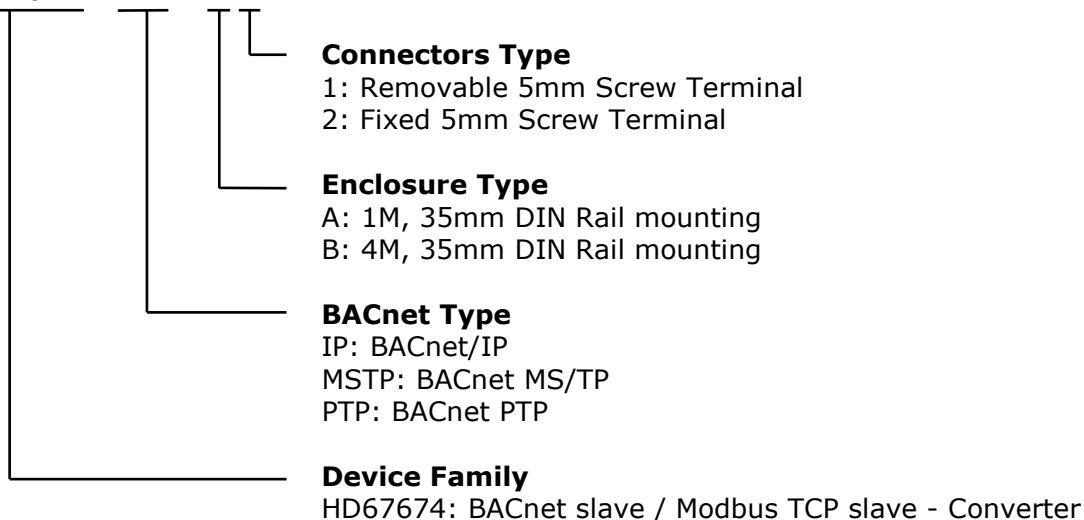
Housing: PVC  
Weight: 200g (Approx)

Figure 8e: Mechanical dimensions scheme for HD67674-PTP-B2

## ORDERING INFORMATION:

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

**HD67674 - xxx - x x**



- |                                    |   |                                                                     |
|------------------------------------|---|---------------------------------------------------------------------|
| Order Code: <b>HD67674-IP-A1</b>   | - | BACnet/IP slave / Modbus TCP slave – Converter (Housing type: A)    |
| Order Code: <b>HD67674-MSTP-A1</b> | - | BACnet MS/TP slave / Modbus TCP slave – Converter (Housing type: A) |
| Order Code: <b>HD67674-MSTP-B2</b> | - | BACnet MS/TP slave / Modbus TCP slave – Converter (Housing type: B) |
| Order Code: <b>HD67674-PTP-A1</b>  | - | BACnet PTP slave / Modbus TCP slave – Converter (Housing type: A)   |
| Order Code: <b>HD67674-PTP-B2</b>  | - | BACnet PTP slave / Modbus TCP slave – Converter (Housing type: B)   |

## ACCESSORIES:

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

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**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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