User Manual
Revision 1.100
English

BACnet Master / Modbus TCP Slave - Converter
(Order Code: HD67714-IP-A1 , HD67714-MSTP-A1, HD67714-MSTP-B2)

For Website information:
www.adfweb.com?Product=HD67714

For Price information:
www.adfweb.com?Price=HD67714-IP-A1
www.adfweb.com?Price=HD67714-MSTP-A1
www.adfweb.com?Price=HD67714-MSTP-B2

Benefits and Main Features:

⊕ Triple Electrical isolation

⊕ Temperature range: -40°C/+85°C (-40°F/+185°F)

For other BACnet products see also the following link:

Converter BACnet Master to

www.adfweb.com?Product=HD67712	**(Modbus Slave)**
www.adfweb.com?Product=HD67716	**(PROFIBUS Slave)**
www.adfweb.com?Product=HD67717	**(CAN)**
www.adfweb.com?Product=HD67718	**(CANopen)**
www.adfweb.com?Product=HD67719	**(PROFINET)**
www.adfweb.com?Product=HD67721	**(DeviceNet Slave)**
www.adfweb.com?Product=HD67723	**(NMEA 2000)**
www.adfweb.com?Product=HD67725	**(J1939)**

Do you have your customer protocol? Then go to:
www.adfweb.com?Product=HD67003

Do you need to choose a device? Do you want help?
www.adfweb.com?Cmd=helpme

User Manual

Industrial Electronic Devices

INDEX:

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/ 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
1.010	10/03/2016	Fl	All	Software changed (v1.100)
1.100	17/06/2025	Mdb	All	New Design

WARNING:

ADFweb.com reserves the right to change information in this manual about our product without warning.
ADFweb.com is not responsible for any error this manual may contain.

TRADEMARKS:

All trademarks mentioned in this document belong to their respective owners.

Industrial Electronic Devices

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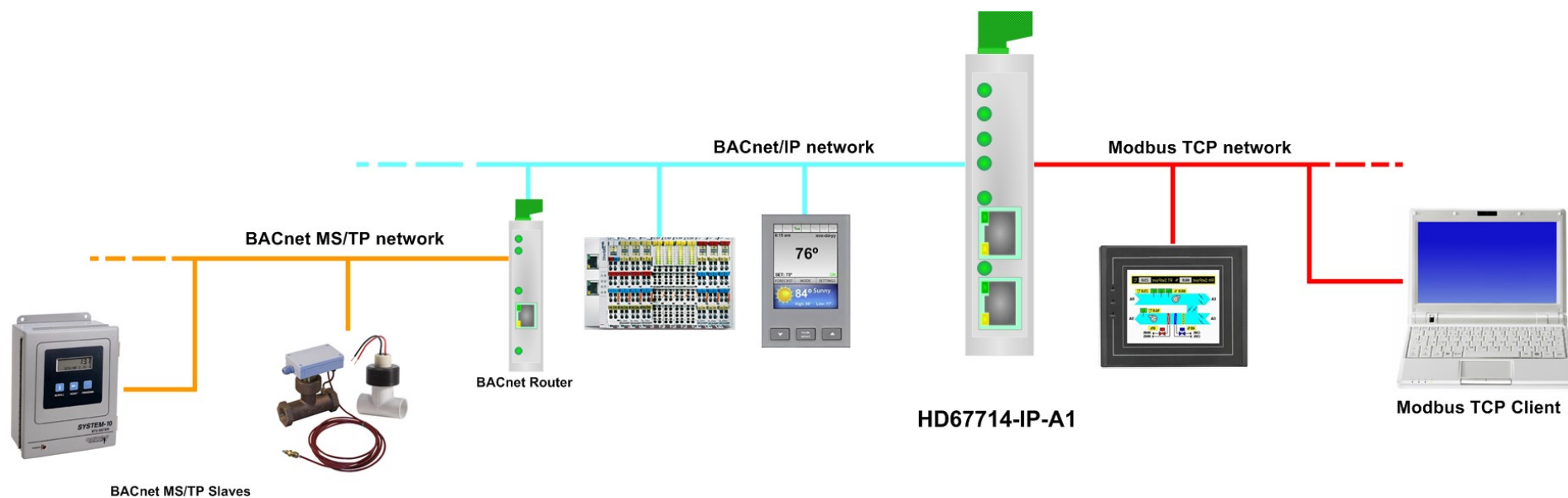
⚠ This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

CE CONFORMITY
The declaration is made by our company. You can send an email to support@adfweb.com or give us a call if you need it.

ADF
web

Industrial Electronic Devices

EXAMPLES OF CONNECTION:

BACnet/IP network   Modbus TCP network

HD67714-IP-A1   Modbus TCP Client

BACnet/IP network   Modbus TCP network

BACnet MS/TP network

BACnet Router

HD67714-IP-A1

Modbus TCP Client

BACnet MS/TP Slaves

BACnet MSTP network

Modbus TCP network

RS485 cable

Ethernet cable

BACnet MSTP Slaves

HD67714-MSTP-A1

Modbus TCP Client

BACnet MSTP network

Modbus TCP network

RS485 cable

Ethernet cable

Internet

BACnet MSTP Slaves

HD67714-MSTP-B2

Modbus TCP Client

Industrial Electronic Devices

CONNECTION SCHEME:

Dip-Switch A:
-Dip1 – Functioning Mode
= Normal   = Boot

Led1:
Green
ON

Led2:
Green
Modbus comm.

Led3:
Green
Device state

Led4:
Green
Not used

Led5:
Green
Ethernet1 Tx

Connector3:
Ethernet1 Port
(RJ45 Plug)

Led6:
Green
Ethernet2 Tx

Connector4:
Ethernet2 Port
(RJ45 Plug)

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

V AC: min 8V ; max 24V
V DC: min 12V ; max 35V

Rail DIN
Clamp

Figure 1a: Connection scheme for HD67714-IP-A1

![ADFweb logo] Industrial Electronic Devices

Dip-Switch A:
-Dip1 – Functioning Mode

= Normal   = Boot

Led4:
Green
Modbus comm.

Led3:
Green
BACnet comm.

Led2:
Green
Ethernet Link

Connector5:
Ethernet Port
(RJ45 Plug)

Led1:
Green
Device State

☐ LED4 Modbus comm.
☐ LED3 BACnet comm.

OFF 1 2
ON

Dip-Switch B

+ - S
RS485 port

+V 0V
Power Supply
8...24V AC
or
12...35V DC

BACnet MSTP Master / Modbus TCP Slave -
Converter
HD67714-MSTP-A1

www.ADFweb.com   Q.n. - - - -

☐ LED2 Ethernet Link

Ethernet

Dip-Switch A

☐ LED1 Device state   OFF 1
ON

C.S.: B279
Date Code:12. 20

MAC: 10-64-E2-08-38-C7
Serial Nr.: I7741

RoHS

Rail DIN
Clamp

+V 0V

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

V AC: min 8V ; max 24V
V DC: min 12V ; max 35V

Dip-Switch B:
-Dip1 – RS485 Termination Resistor

= Open   = 220 Ohm

-Dip2 – Not used

Connector3:
RS485 (Isolated port)

S = Shield* (to Isolated Ground)
B = Negative wire
A = Positive wire

Figure 1b: Connection scheme for HD67714-MSTP-A1

ADF web

Industrial Electronic Devices

Dip-Switch A:
-Dip1 – Functioning Mode

= Normal   = Boot

Dip-Switch B:
-Dip1 – RS485 Termination Resistor

= Open   = 220 Ohm

Connector3:
RS485 (Isolated port)

S = Shield* (to Isolated Ground)
B = Negative wire
A = Positive wire

A B S

Led1:
Green
Device state

Led3:
Yellow
BACnet comm

Led4:
Yellow
Modbus comm

Led5:
Yellow
Not used

Connector5:
Ethernet Port
(RJ45 Plug)

Led2:
Green
Ethernet Link

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

V AC: min 8V ; max 24V
V DC: min 12V ; max 35V

Power Supply
0V +V
8...24V AC
or
12...35V DC

Q.n. - - - -

ETHERNET

LED

Device State
BACnet comm.
Modbus comm.
Not used.

www.ADFweb.com

BACnet MSTP Master / Modbus TCP Slave
- Converter
HD67714-MSTP-B2
RS485 port   MAC: 10-64-E2-09-E9-18
Dip-Switch A Dip-Switch B +   -   S   Serial Nr.: T8414

0V +V

Figure 1c: Connection scheme for HD67714-MSTP-B2

CHARACTERISTICS:

The HD67714-IP-A1 and HD67714-MSTP-A1/B2 are BACnet Master / Modbus TCP Slave Converters.

They allows the following characteristics:

- Up to 512 BACnet objects in reading and 512 objects in writing;
- Triple isolation between RS485 - Power Supply, RS485 - Ethernet, Ethernet - Power Supply;
- Two-directional information between Modbus TCP 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 SW67714 software on your PC in order to perform the following:

- Define the parameters of BACnet line;
- Define the parameters of Modbus TCP line;
- Define the BACnet data that a master read;
- Define the BACnet data that a master write;
- 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]
HD67714-IP-A1	3.5
HD67714-MSTP-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

0V +V

0V +V

+V 0V
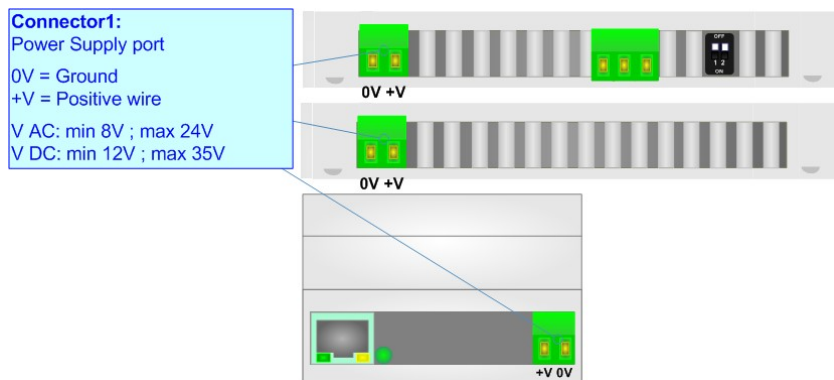
Caution: Do not reverse the polarity power

0V ⌐ ⌐ +V

+V ⌐ ⌐ 0V
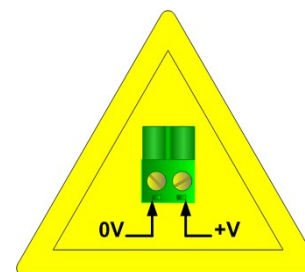
HD67714-IP-A1
HD67714-MSTP-A1
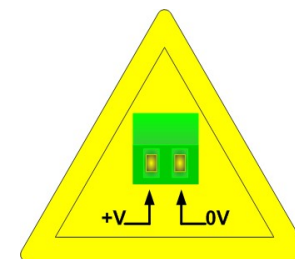
HD67714-MSTP-B2

FUNCTION MODES:

The device has got two function modes depending on 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 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 specific functions, see 'LEDS' section.

Industrial Electronic Devices
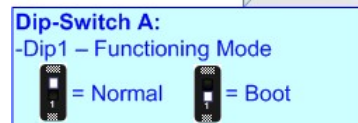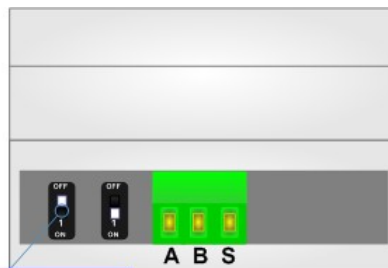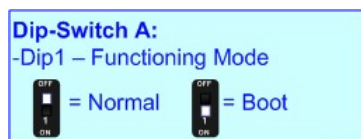
LEDS (for HD67714-IP-A1):

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)	**ON:** Device powered **OFF:** Device not powered	**ON:** Device powered **OFF:** Device not powered
2: Modbus comm. (green)	Blinks when Modbus data are received	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
3: Device state (green)	Blinks slowly (~1Hz)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
4: Not used (green)	OFF	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
5: Ethernet1 Tx (green)	Blinks when is transmitting Ethernet frames	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
6: Ethernet2 Tx (green)	Blinks when is transmitting Ethernet frames	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress

ADFweb.com S.r.l.

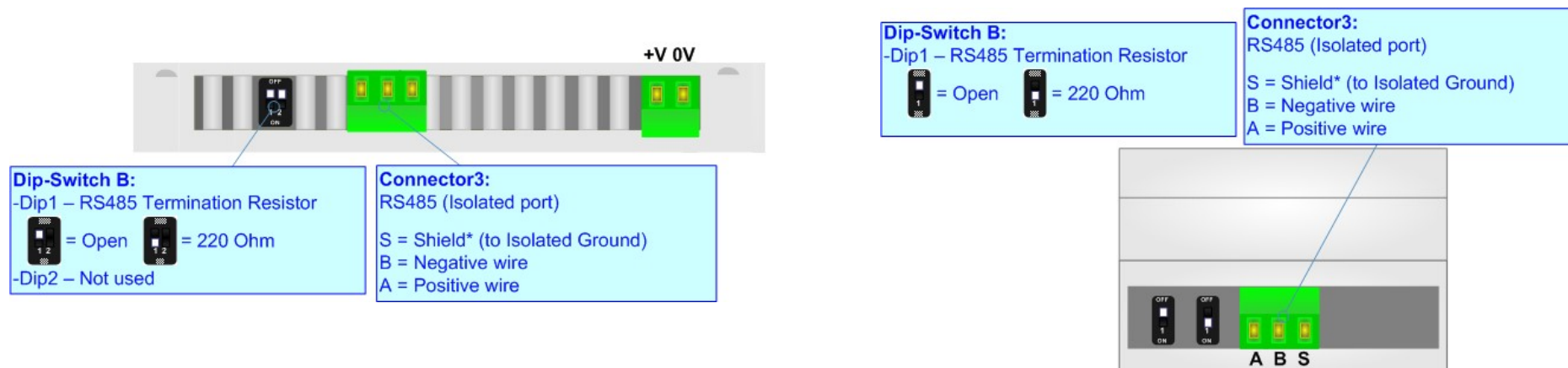*Industrial Electronic Devices*
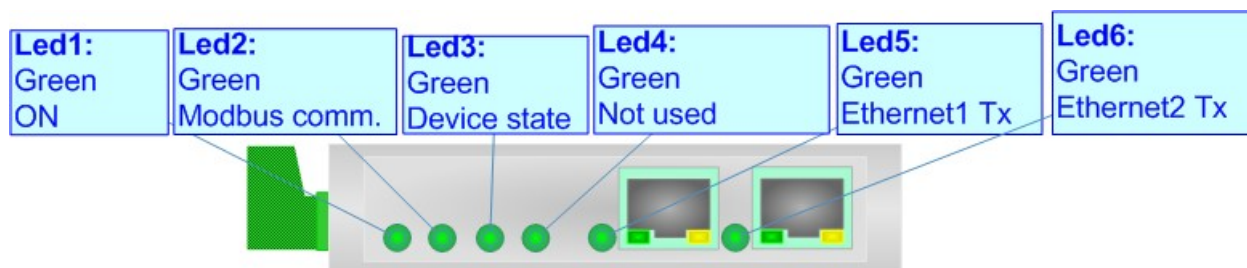
LEDS (for HD67714-MSTP-A1/B2):

The device has got four LEDs (five for HD67714-MSTP-A1) 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: Device State (green)	Blinks slowly (~1Hz)	**ON:** Device powered **OFF:** Device not powered
2: Ethernet Link (green)	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
3: BACnet comm. (green)	Blinks when BACnet data are received	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
4: Modbus comm. (green)	Blinks when Modbus TCP frames are received	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
5: Not Used	OFF	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress

ADFweb.com S.r.l.

Industrial Electronic Devices
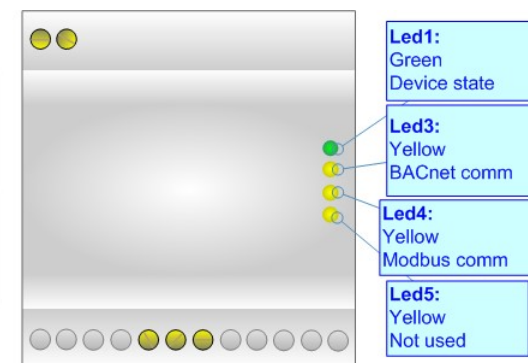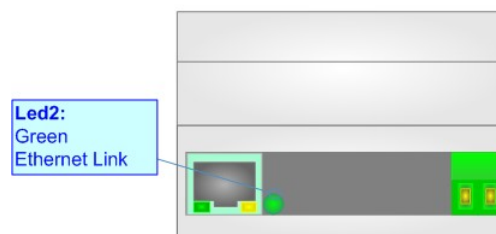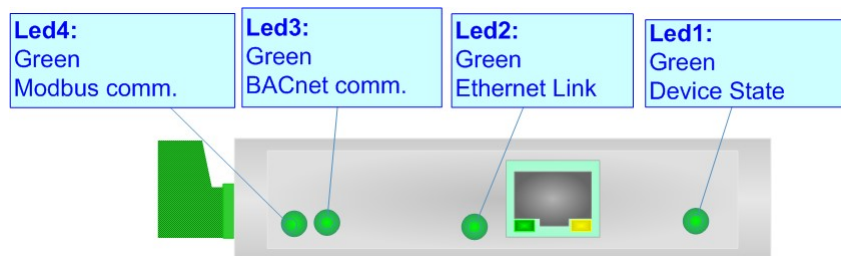
RS485 (HD67714-MSTP-A1/B2):

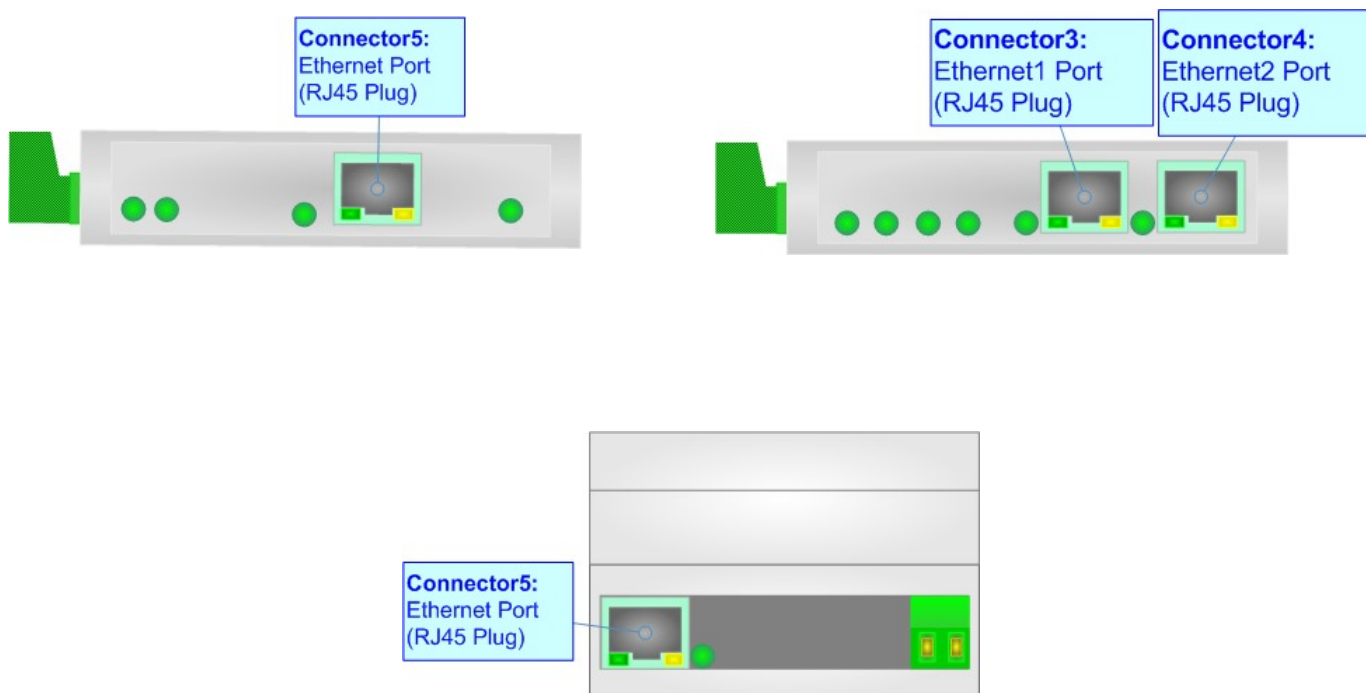To terminate the RS485 line with a 220Ω resistor it is necessary to put ON dip 1, like in figure.

Dip-Switch B:
-Dip1 – RS485 Termination Resistor

= Open   = 220 Ohm

-Dip2 – Not used

Connector3:
RS485 (Isolated port)

S = Shield* (to Isolated Ground)
B = Negative wire
A = Positive wire

+V 0V

Dip-Switch B:
-Dip1 – RS485 Termination Resistor

= Open   = 220 Ohm

Connector3:
RS485 (Isolated port)

S = Shield* (to Isolated Ground)
B = Negative wire
A = Positive wire

A B S

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.

Industrial Electronic Devices

ETHERNET:

The BACnet/IP connection, Modbus TCP connection and the updating of the converters must be made using Connector3 and/or Connector4 and/or Connector5 of HD67714-xxx-A1/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/PLC/other is recommended the use of a cross cable.

Connector5:
Ethernet Port
(RJ45 Plug)

Connector3:
Ethernet1 Port
(RJ45 Plug)

Connector4:
Ethernet2 Port
(RJ45 Plug)

Connector5:
Ethernet Port
(RJ45 Plug)

Industrial Electronic Devices

USE OF COMPOSITOR SW67714:

To configure the Converter, use the available software that runs with Windows called SW67714. It is downloadable on the site 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 or 11; 32/64bit).

When launching the SW67714, the window below appears (Fig. 2).

Note:
It is necessary to have installed .Net Framework 4.
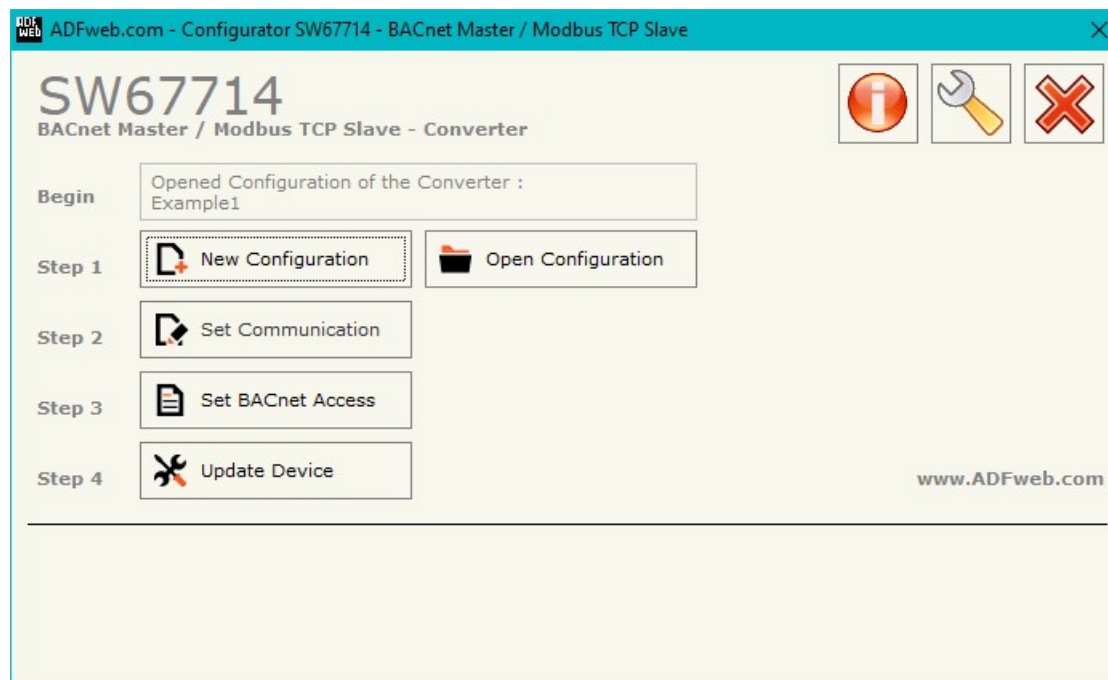
Figure 2: Main window for SW67714

Industrial Electronic Devices

NEW CONFIGURATION / OPEN CONFIGURATION:

The "**New Configuration**" button creates the folder which contains the entire device's configuration.
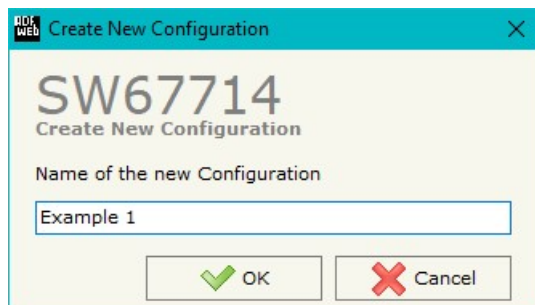
A device's configuration can also be imported or exported:

- To clone the configurations of a programmable "BACnet Master / 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**".
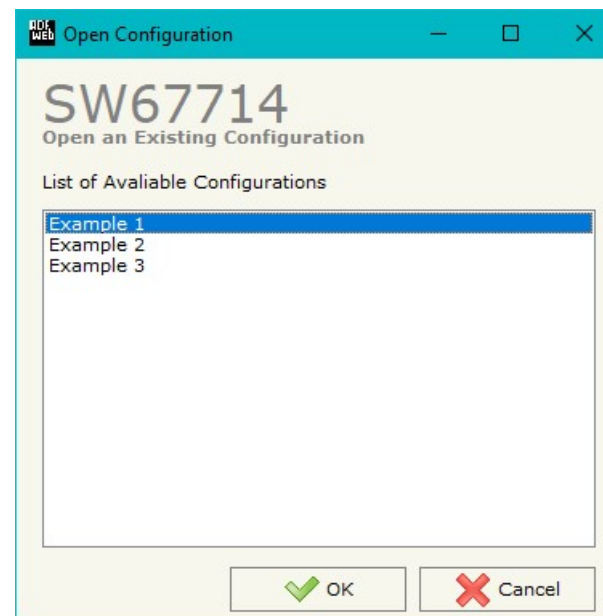
SOFTWARE OPTIONS:

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.
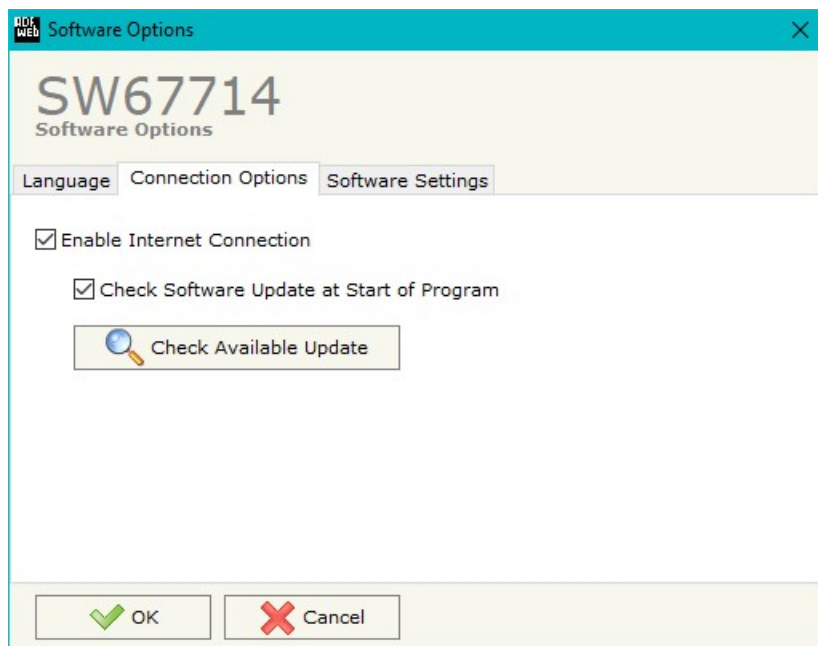
In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website.
Checking the option "**Check Software Update at Start of Program**", the SW67714 check automatically if there are updatings when it is launched.

Industrial Electronic Devices

In the section "Software Settings", it is possible to enable/disable some keyboard's commands for an easier navigation inside the tables contained in the different sections of the software.

Industrial Electronic Devices

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 SW67714 (Fig. 2) the window "Set Communication" appears (Fig. 3).

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

- ➡ BACnet/IP (use ethernet);
- ➡ BACnet MS/TP (use RS485);

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 number 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;
- ➡ In the field "**TimeOut Polling (ms)**" the timeout for the BACnet requests is defined;
- ➡ In the field "**Send IAm msg evert (s)**" the message I-am is sent by device every time indicated on the field. The minimum time is 60s.

The means of the fields for the "Modbus TCP Slave" section are the same for all types of BACnet:

- ➡ 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**" port number used for Modbus TCP communication is defined.

Figure 3a: "Set Communication" window

Industrial Electronic Devices

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.

These information are used for programming the Converter and for the Modbus TCP communication.

Note:
    Is possible to assign the same IP address for "BACnet/IP" and "Modbus TCP". Is valid also for "Ethernet Update" and "Modbus TCP".
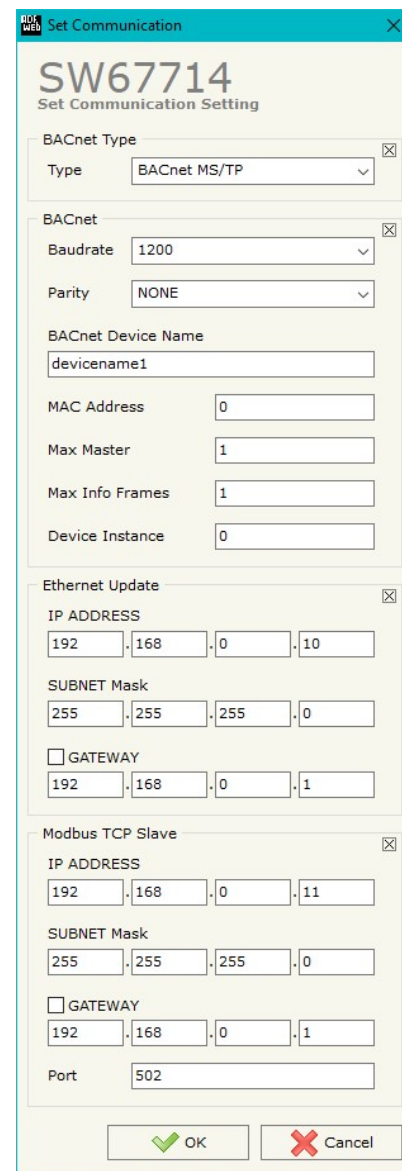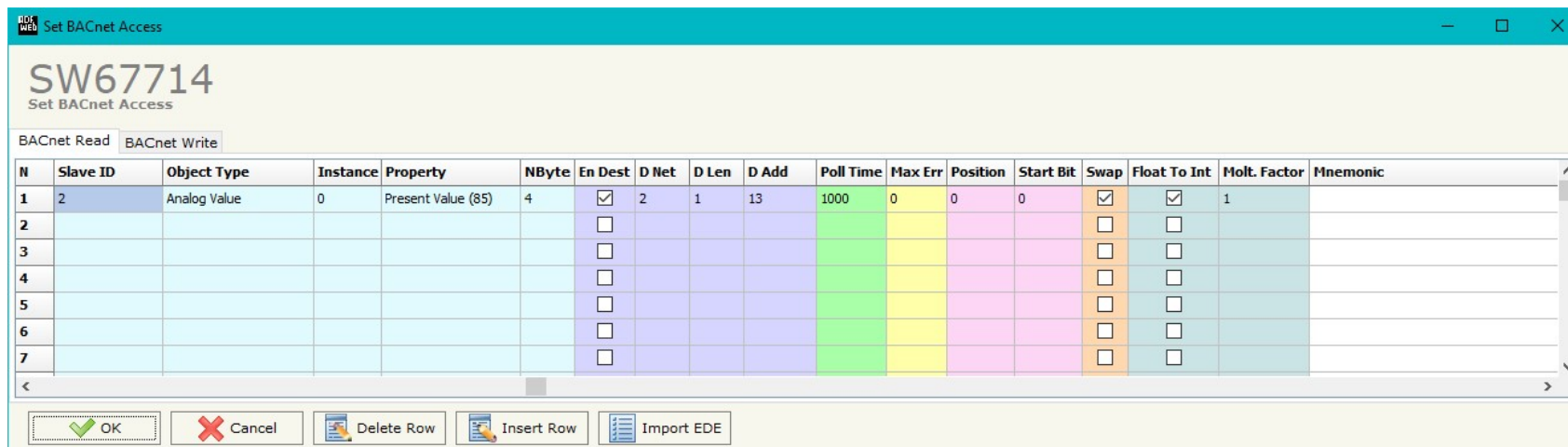
Figure 3b: "Set Communication" window

Industrial Electronic Devices

SET BACNET ACCESS:

By Pressing the "**Set BACnet Access** " button from the main window of SW67714 (Fig. 2), the window "Set BACnet Access" appears (Fig. 4).
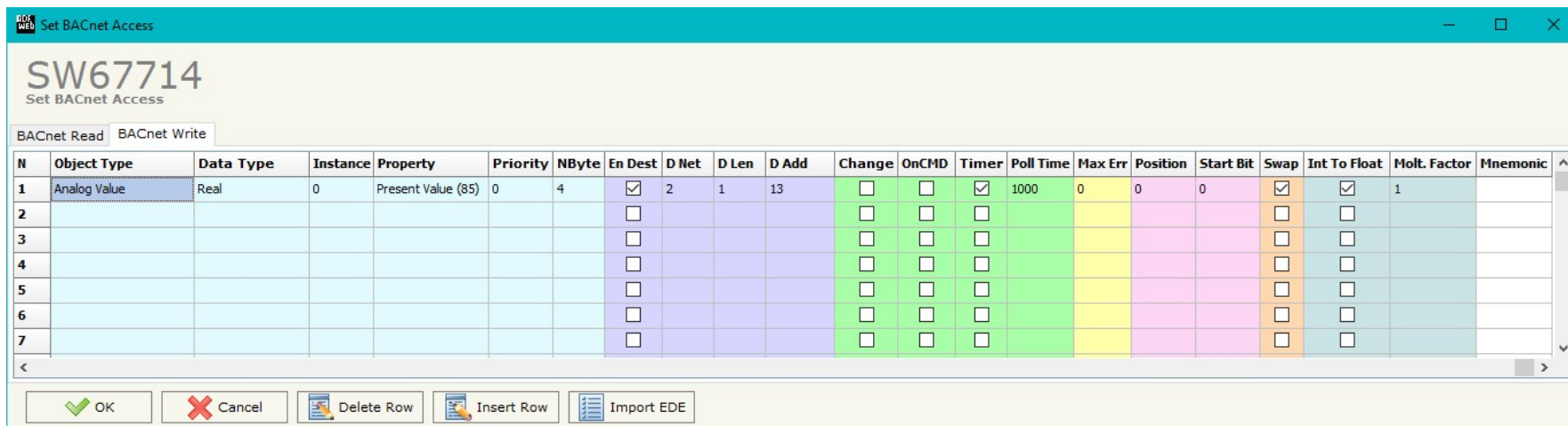

Figure 4a: "BACnet Set Access → BACnet Read" window

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:

➔ In the field "**Slave ID**" insert the IP address or ID of the slave that contains the data to be read;
➔ 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 reserved for saving the information on Modbus;
➔ By checking the field "**En Dest**" is possible to enable the Destination Network (D Net), Destination Length (D Len) and Destination Address (D Adr). These informations are used for make a request to other segments of network;
➔ In the field "**D Net**" define the destination network (from 1 to 65535);

Industrial Electronic Devices

- In the field "**D Len**" define the length of "D Add" field (1 or 2 or 6);

- In the field "**D Add**" define the address of the endpoint. If "D Len" is one is possible to insert a number from 1 to 255; if "D Len" is two is possible to insert a number from 1 to 65535; if "D Len" is 6 is possible to insert an IP and port in this format "192.168.2.188:47808";

- 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 (readable by Modbus);

- 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;

- By checking the field "**Swap**" is possible to swap the order of data readed from BACnet slave;

- By checking the field "**Float To Int**" it is possible to convert the format from Float to Int;

- In the field "**Molt. Factor**" it is possible to define a factor for the converted data;

- In the field "**Mnemonic**" is possible to insert a description of the data inserted in the row.

Figure 4b: "BACnet Set Access → BACnet Write" window

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

- In the field "**Object Type**" select the object to be written;
- In the field "**Data Type**" the type of data to write is defined;
- In the field "**Instance**", define the instance number of the object;
- In the field "**Property**" select the property to be written;
- In the field "**Priority**" define the priority of the frame (from 0 to 16). If is 0, means the frame doesn't contain the Priority tag.
- In the field "**NByte**", define the number of bytes sent in the request;
- By checking the field "**En Dest**" is possible to enable the Destination Network (D Net), Destination Length (D Len) and Destination Address (D Adr). These informations are used for make a request to other segments of network;
- In the field "**D Net**" define the destination network (from 1 to 65535);
- In the field "**D Len**" define the length of "D Add" field (1 or 2 or 6);
- In the field "**D Add**" define the address of the endpoint. If "D Len" is one is possible to insert a number from 1 to 255; if "D Len" is two is possible to insert a number from 1 to 65535; if "D Len" is 6 is possible to insert an IP and port in this format "192.168.2.188:47808";
- By checking the field "**Change**" the BACnet write request is made only if Modbus data are changed; otherwise (if is selected the field "**Timer**") is sent cyclically, using the "Poll Time";
- By checking the field "**OnCMD**" the BACnet write request is sent at the reception of a Modbus request;

Industrial Electronic Devices

- 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 (writeable by Modbus);
- 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;
- By checking the field "**Swap**" is possible to swap the order of data written to the BACnet slave;
- By checking the field "**Float To Int**" it is possible to convert the format from Int to Float;
- In the field "**Molt. Factor**" it is possible to define a factor for the converted data;
- In the field "**Mnemonic**" is possible to insert a description of the data inserted in the row.

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. This by using the Ethernet port.

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**";
- 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' in OFF position;
- Turn ON the device.

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;
- 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 5: "Update device" windows

Note:
When you receive the device, for the first time, you also have to update the Firmware in the HD67714 device.

Warning:
If Fig. 6 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;
- Check the LAN 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, 10 or 11 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 or 11 you have to launch the "Command Prompt" with Administrator Rights;
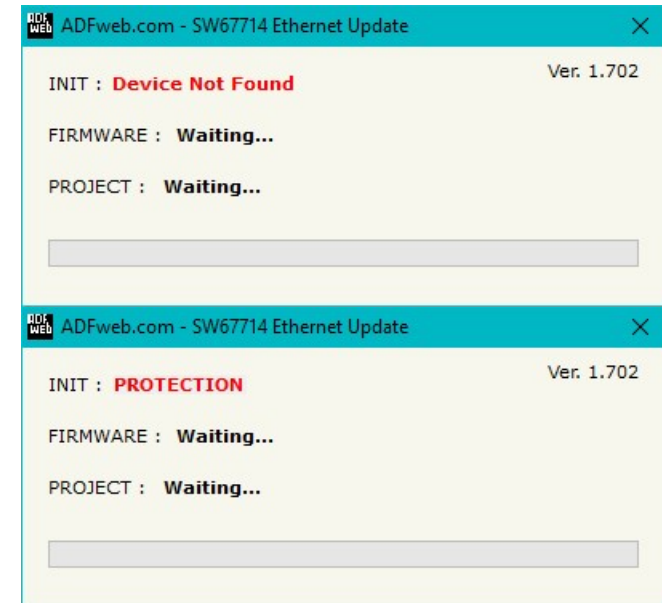- Pay attention at Firewall lock.

Figure 6: "Error" window

Warning:
In the case of HD67714 you have to use the software "HD67714": www.adfweb.com\download\filefold\SW67714.zip.

MECHANICAL DIMENSIONS:

□ LED1 ON
□ LED2 Modbus comm.
□ LED3 Device state
□ LED4 Not used

□ LED5 Ethernet1 Tx
Ethernet1
□ LED6 Ethernet2 Tx
Ethernet2

+V   0V
Power Supply
8...24V AC
or
12...35V DC

BACnet/IP Master / Modbus TCP Slave - Converter
HD67714-IP-A1
www.ADFweb.com   **Q.n.** - - - -

Dip-Switch A
OFF 1
ON

C.S.: B278   MAC: 10-64-E2-08-0D-01
Date Code: 14. 20   Serial Nr.: H6535

RoHS

90.7 mm
3.57 inch

83.7 mm
3.3 inch

123 mm
4.84 inch

22.5 mm
0.89 inch

Housing: PC-ABS
Weight: 200g (Approx)

Figure 6a: Mechanical dimensions scheme for HD67714-IP-A1

![ADFweb logo] Industrial Electronic Devices
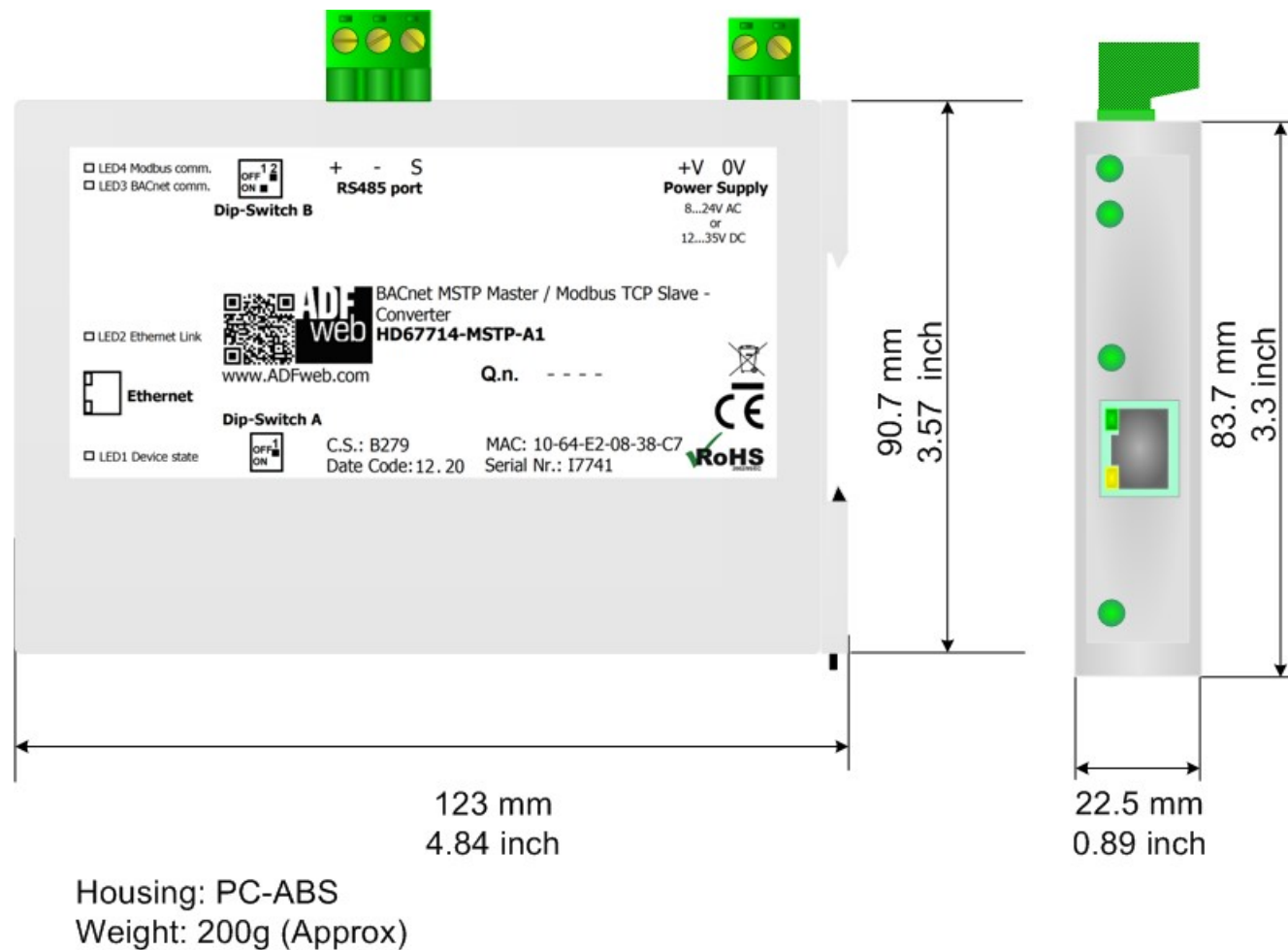
Figure 6b: Mechanical dimensions scheme for HD67714-MSTP-A1

LED4 Modbus comm.
LED3 BACnet comm.
Dip-Switch B

+ - S
RS485 port

+V   0V
Power Supply
8...24V AC
or
12...35V DC

BACnet MSTP Master / Modbus TCP Slave - Converter
HD67714-MSTP-A1
www.ADFweb.com

Q.n.   - - - -

LED2 Ethernet Link

Ethernet

Dip-Switch A

LED1 Device state

C.S.: B279
Date Code:12.20

MAC: 10-64-E2-08-38-C7
Serial Nr.: I7741

90.7 mm
3.57 inch

83.7 mm
3.3 inch

123 mm
4.84 inch

22.5 mm
0.89 inch

Housing: PC-ABS
Weight: 200g (Approx)

Industrial Electronic Devices

Figure 6c: Mechanical dimensions scheme for HD67714-MSTP-B2

ADFweb

Industrial Electronic Devices

ORDERING INFORMATIONS:

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

HD67714 – xxx – xx
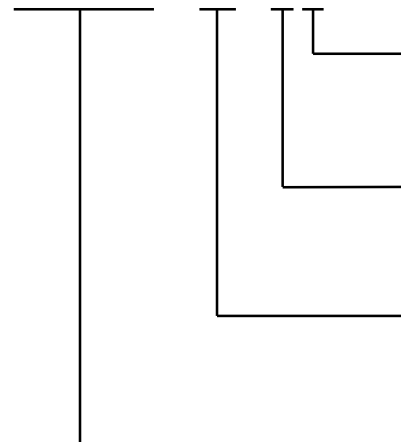
Connectors Type
1: Removable 5mm Screw Terminal
2: Fixed 5mm Screw Terminal

Enclosure Type
A: 1M, 35mm DIN Rail mounting
B: 4M, 35mm DIN Rail mounting

BACnet type
IP: BACnet/IP
MSTP: BACnet MSTP

Device Family
HD67714: BACnet Master / Modbus TCP Slave - Converter

Order Code: **HD67714-IP-A1**   -   BACnet/IP Master / Modbus TCP Slave – Converter
Order Code: **HD67714-MSTP-A1**   -   BACnet/MSTP Master / Modbus TCP Slave – Converter
Order Code: **HD67714-MSTP-B2**   -   BACnet/MSTP Master / Modbus TCP Slave – Converter

ACCESSORIES:

Order Code: **AC34011**   -   35mm Rail DIN - Power Supply 220/240V AC 50/60Hz – 12 V DC

Order Code: **AC34012**   -   35mm Rail DIN - Power Supply 220/240V AC 50/60Hz – 24 V DC

Industrial Electronic Devices

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.

ADFweb.com S.r.l.

Industrial Electronic Devices

WARRANTIES AND TECHNICAL SUPPORT:

For fast and easy technical support for your ADFweb.com SRL products, consult our internet support at www.adfweb.com.
Otherwise contact us at the address 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. 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.

ADFweb.com S.r.l.
Via Strada Nuova, 17
IT-31010 Mareno di Piave
TREVISO (Italy)
Phone +39.0438.30.91.31
Fax +39.0438.49.20.99
www.adfweb.com