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Industrial Electronic Devices

User Manual
Revision 1.000
English

BACnet/IP slave / EtherNet/IP slave - Converter
(Order Code: HD67682-IP-A1)

BACnet MS/TP slave / EtherNet/IP slave - Converter
(Order Code: HD67682-MSTP-A1, HD67682-MSTP-B2)

For Website information:
www.adfweb.com?Product=HD67682

For Price information:
www.adfweb.com?Price=HD67682-A1

Benefits and Main Features:

- Very easy to configure
- Electrical isolation for BACnet/IP version
- Triple electrical isolation for BACnet MS/TP version
- Temperature range: -40°C/85°C (-40°F/185°F)

User Manual

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For others PROFINET products see also the following link:

Converter BACnet to

www.adfweb.com?Product=HD67056	**(M-Bus Master)**
www.adfweb.com?Product=HD67671	**(Modbus Master)**
www.adfweb.com?Product=HD67672	**(Modbus Slave)**
www.adfweb.com?Product=HD67673	**(Modbus TCP Master)**
www.adfweb.com?Product=HD67674	**(Modbus TCP Slave)**
www.adfweb.com?Product=HD67675	**(PROFIBUS Master)**
www.adfweb.com?Product=HD67676	**(PROFIBUS Slave)**
www.adfweb.com?Product=HD67677	**(CAN)**
www.adfweb.com?Product=HD67678	**(CANopen)**
www.adfweb.com?Product=HD67679	**(PROFINET)**
www.adfweb.com?Product=HD67680	**(DeviceNet Master)**
www.adfweb.com?Product=HD67681	**(DeviceNet Slave)**
www.adfweb.com?Product=HD67682	**(EtherNet/IP)**
www.adfweb.com?Product=HD67683	**(NMEA 2000)**
www.adfweb.com?Product=HD67684	**(Ethernet)**

Do you have an your customer protocol?
www.adfweb.com?Product=HD67003

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

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
1.000	18/08/2014	Fl	All	First Release

WARNING:

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

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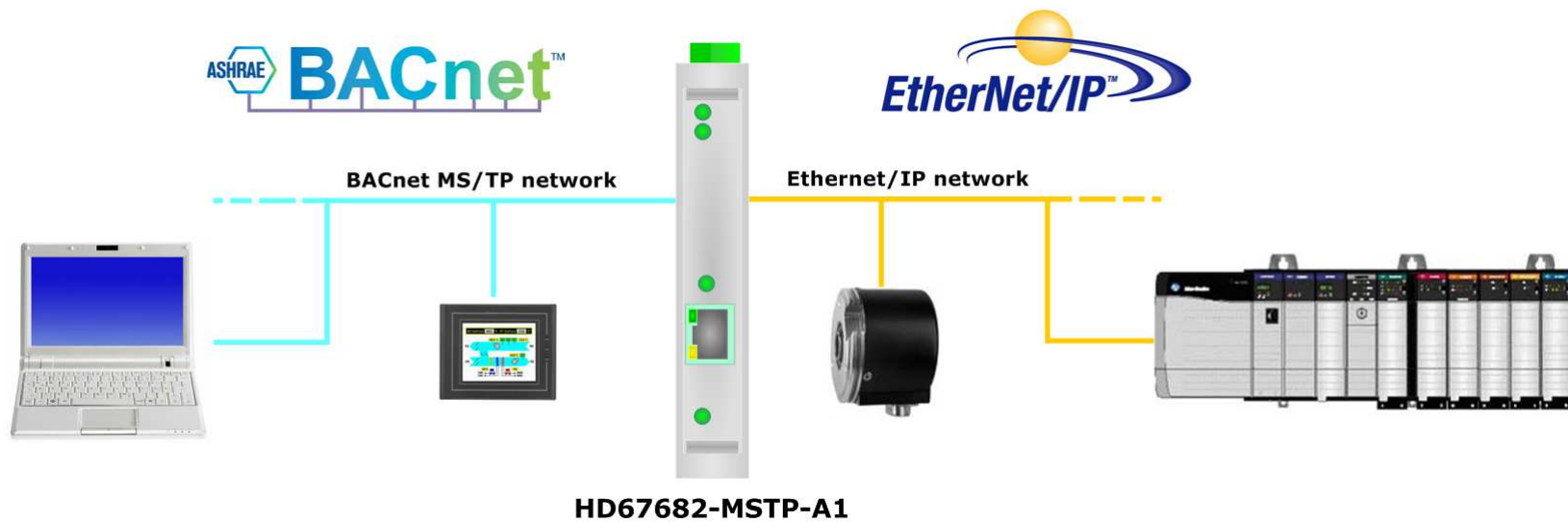
⚠️ This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

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.
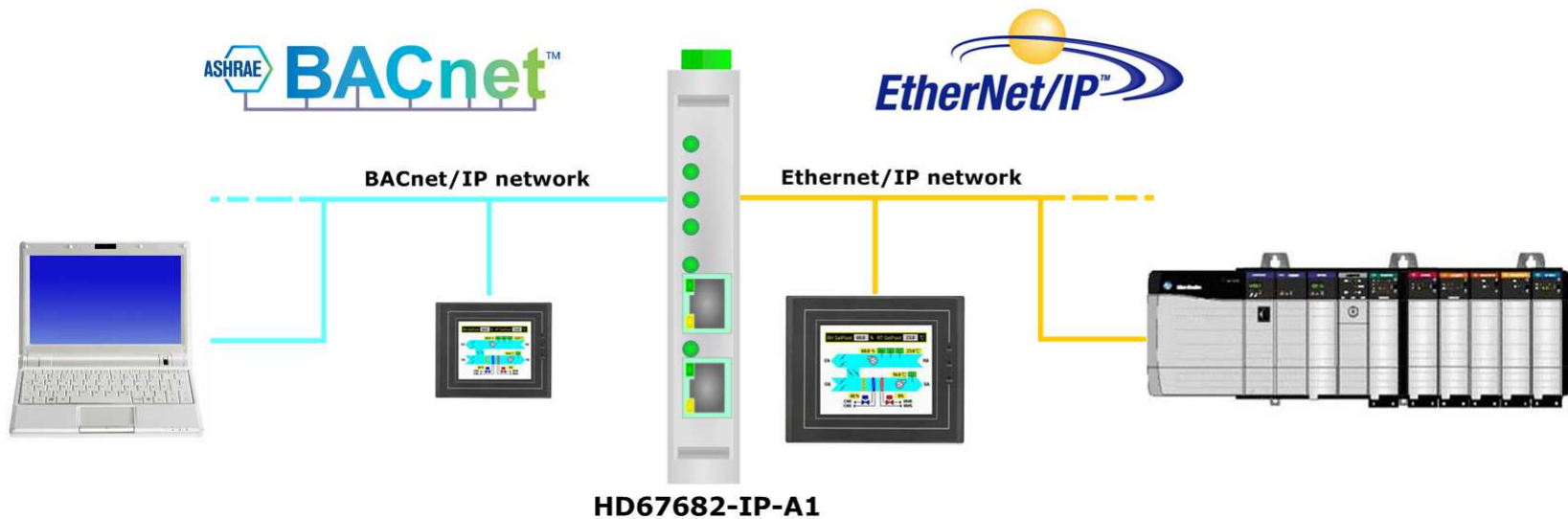
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EXAMPLE OF CONNECTION:

HD67682-IP-A1

HD67682-MSTP-A1

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CONNECTION SCHEME:

Figure 1a: Connection scheme for HD67682-IP-A1

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

= Normal   = Boot

□ LED4 EtherNet/IP comm.
□ LED3 BACnet comm.

Dip-Switch B

+   -   S
RS485 port

+V   0V
Power Supply

8...24V AC
or
12...35V DC

BACnet MS/TP slave / EtherNet/IP slave
- Converter
HD67677-MSTP-A1

□ LED2 Ethernet Link

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Q.n.   - - - -

Ethernet

Dip-Switch A

c.s.: B185   MAC: 10-64-E2-07-44-14
Date Code: 46 . 14   Serial Nr.: C4868

RoHS

□ LED1 Device state

Rail DIN
Clamp

Led4:
Green
EtherNet/IP
communication

Led3:
Green
BACnet
communication

Led2:
Green
Ethernet Link

Connector5:
Ethernet Port
(RJ45 Plug)

Led1:
Green
Device state

A   B   S   +V 0V
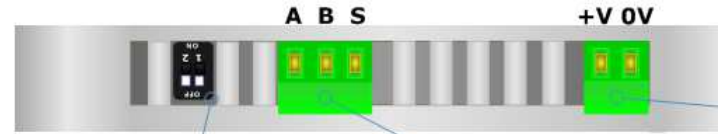
Dip-Switch B:
-Dip1 – RS485 Termination Resistor

= Open   = 220 Ohm

-Dip2 – Not used

Connector3:
RS485 (Isolated port)

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

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

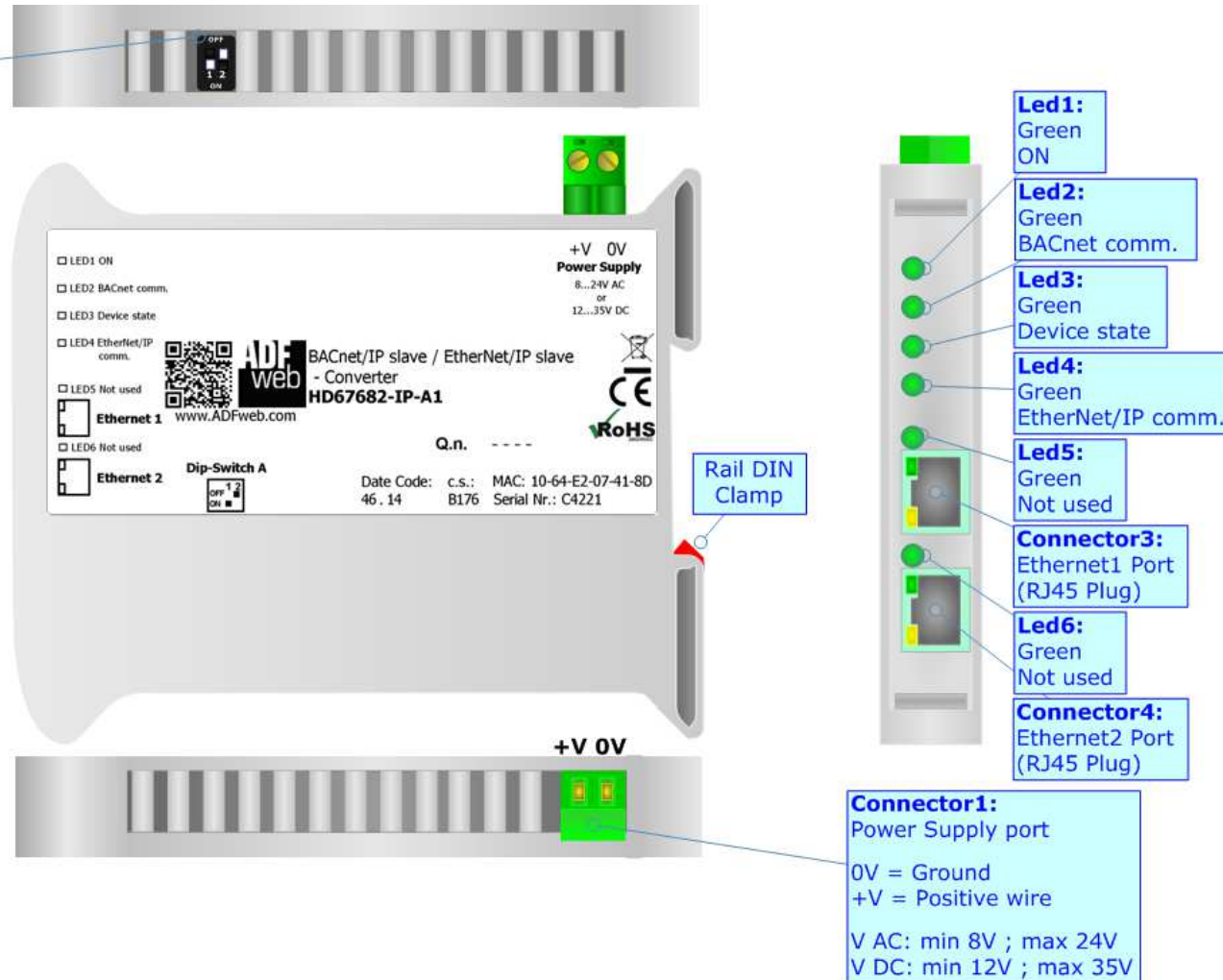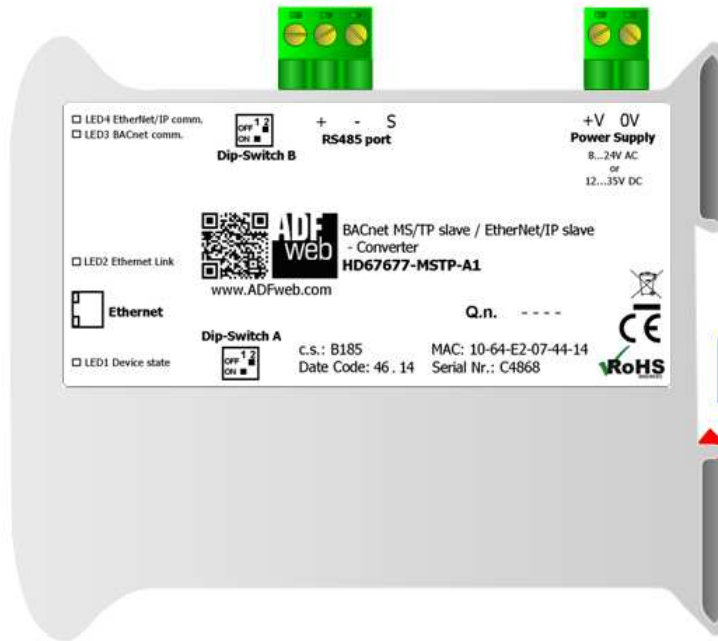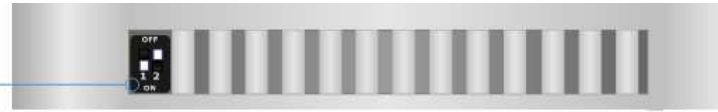*Figure 1b: Connection scheme for HD67682-MSTP-A1*

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

= Normal   = Boot

Dip-Switch B:
-Dip1 – Not used
-Dip2 – RS485 Termination Resistor

= Open   = 220 Ohm

Connector3:
RS485 (Isolated port)

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

Led1:
Green
Device state

Led2:
Yellow
EtherNet/IP
communication

Led3:
Yellow
BACnet
communication

Led4:
Yellow
Not used

Connector5:
Ethernet Port
(RJ45 Plug)

Led5:
Green
Ethernet Link

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

V AC: min 8V ; max 24V
V DC: min 12V ; max 35V
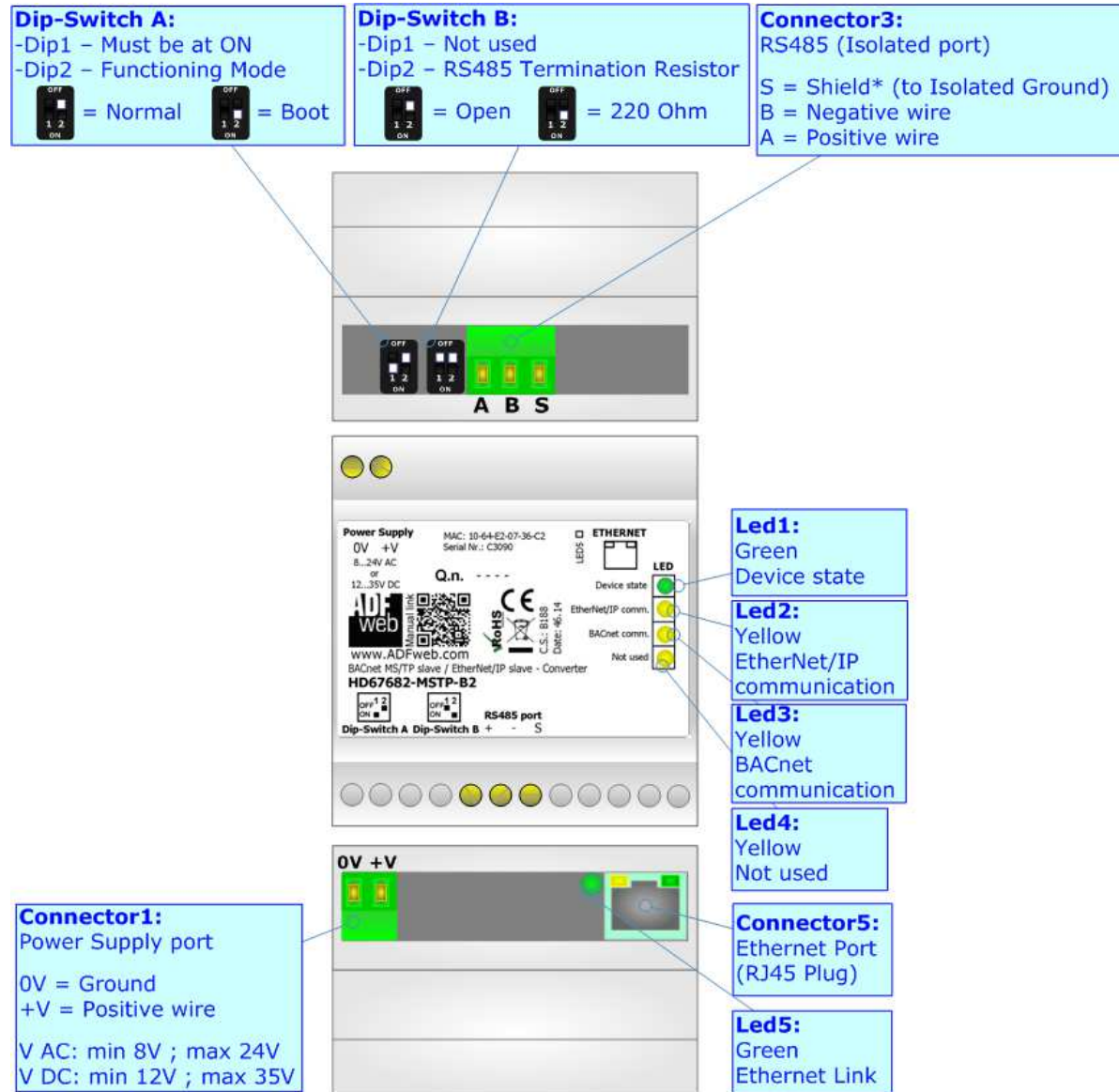
Figure 1c: Connection scheme for HD67682-MSTP-B2

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CHARACTERISTICS:

The HD67682-IP-A1, HD67682-MSTP-A1 and HD67682-MSTP-B2 are BACnet slave / EtherNet/IP slave Converter.

They allows the following characteristics:

→ Up to 2000 BACnet objects (Read+Write);
→ Up to 496 bytes in reading and 496 bytes in writing for EtherNet/IP;
→ Isolation between Ethernet - Power Supply for HD67682-IP-A1;
→ Triple isolation between BACnet - Power Supply, BACnet – EtherNet/IP, Power Supply - EtherNet/IP for HD67682-MSTP-A1 and HD67682-MSTP-B2;
→ Two-directional information between BACnet and EtherNet/IP;
→ 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 SW67682 software on your PC in order to perform the following:

→ Define the parameter of BACnet line;
→ Define the parameter of EtherNet/IP line;
→ Define BACnet objects that contains the data sent by EtherNet/IP;
→ Define BACnet objects that contains the data to sent to the EtherNet/IP;
→ Update the device.

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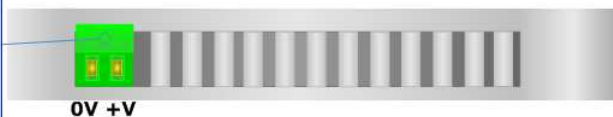
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POWER SUPPLY:

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:

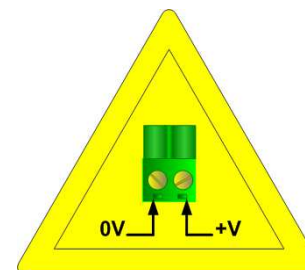| Device	Consumption [W/VA]
HD67682-IP-A1	3.5
HD67682-MSTP-A1	3.5
HD67682-MSTP-B2	3.5

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

0V +V

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

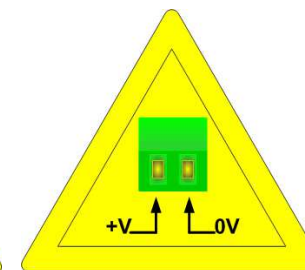V AC: min 8V ; max 24V
V DC: min 12V ; max 35V

0V +V
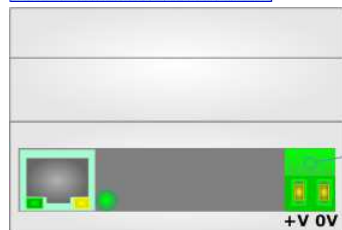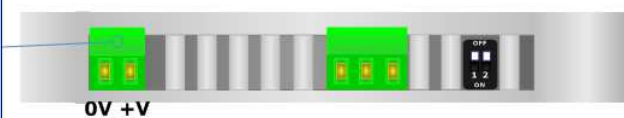
Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

+V 0V

Caution: Not reverse the polarity power

0V   +V

+V   0V

HD67682-IP-A1
HD67682-MSTP-A1

HD67682-MSTP-B2

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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 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.
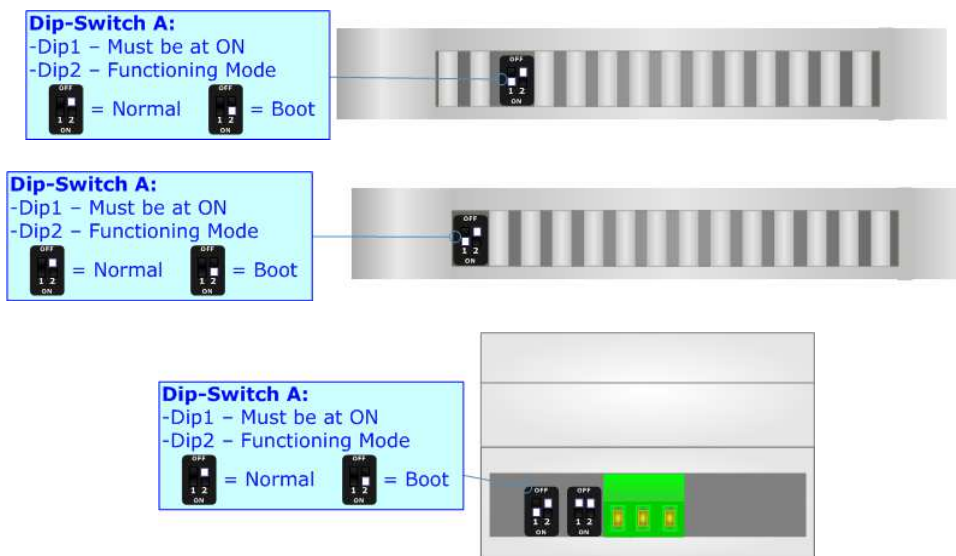
Warning:
Dip1 of 'Dip-Switch A' must be at ON position for working even if the Ethernet cable isn't inserted.

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LEDS:

HD67682-IP-A1

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: ON	**ON:** Device powered **OFF:** Device not powered	**ON:** Device powered **OFF:** Device not powered
2: BACnet communication	Blinks quickly when receive a BACnet request	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
3: Device State	Blinks slowly (~1Hz)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
4: EtherNet/IP communication	Blinks quickly when is in data exchange with the EtherNet/IP master	**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
6: Not used	OFF	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress

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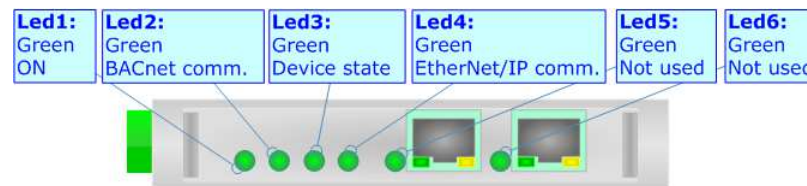
HD67682-MSTP-A1

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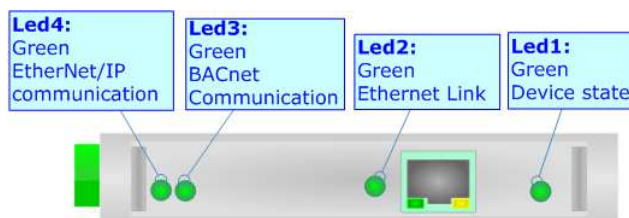The various meanings of the LEDs are described in the table below.

LED	Normal Mode	Boot Mode
1: Device State	Blinks slowly (~1Hz)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
2: Link Ethernet	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected
3: BACnet communication	Blinks quickly when receive a BACnet request	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
4: EtherNet/IP Communication	Blinks quickly when is in data exchange with the EtherNet/IP master	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress

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HD67682-MSTP-B2

The device has five 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	Blinks slowly (~1Hz)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
2: EtherNet/IP Communication	Blinks quickly when is in data exchange with the EtherNet/IP master	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
3: BACnet communication	Blinks quickly when receive a BACnet request	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
4: Not used	Off	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
5: Link Ethernet	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected

Industrial Electronic Devices
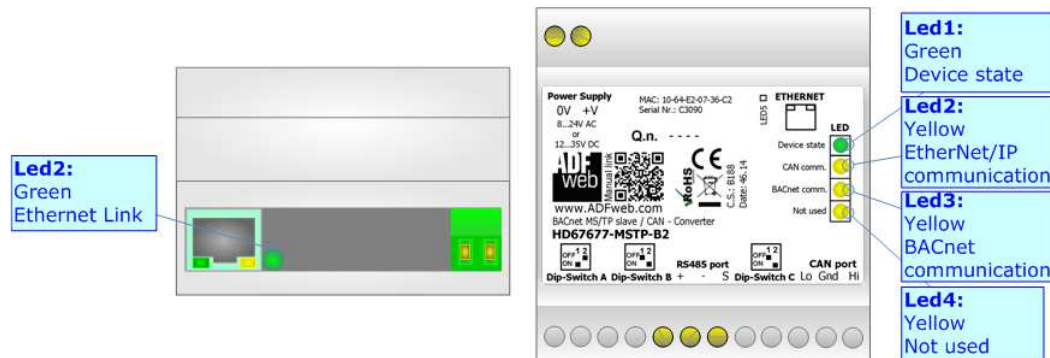
ETHERNET:

HD67682-IP-A1

The Ethernet ports are used for BACnet/IP and EtherNet/IP communication and for programming the device.
The BACnet/IP and EtherNet/IP connection must be made using Connector3 and/or Connector4 of HD67682-IP-A1 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.
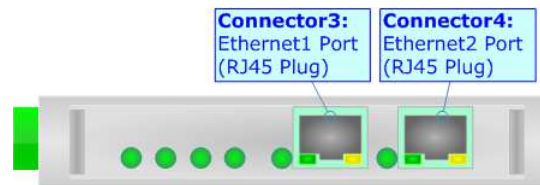
HD67682-MSTP-A1, HD67682-MSTP-B2

The Ethernet port is used for programming the device.
The Ethernet connection must be made using Connector5 of HD67682-MSTP-A1 or HD67682-MSTP-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.

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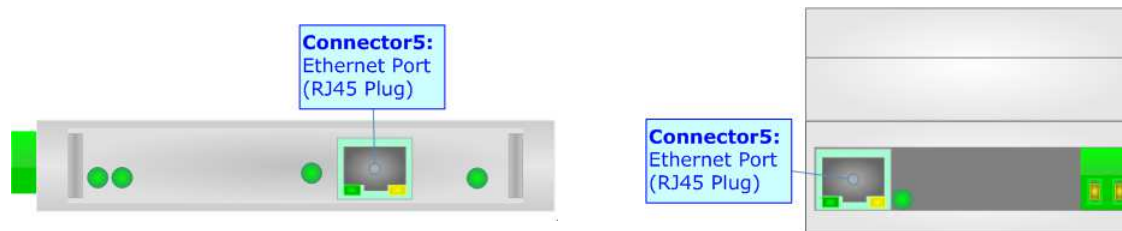
RS485:

The RS485 port is present only for the BACnet MS/TP devices (HD67682-MSTP-A1 and HD67682-MSTP-B2).

For terminating the CAN line with a 220Ω resistor it is necessary to put Dip1 of 'Dip-Switch B' (for code and HD67682-MSTP-A1) or Dip2 of 'Dip-Switch B' (for code HD67682-MSTP-B2) at ON position.

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.

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USE OF COMPOSITOR SW67682:

To configure the Converter, use the available software that runs with Windows called SW67682. It is downloadable from 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; 32/64bit).

When launching the SW67682, the window below appears (Fig. 2).

Note:
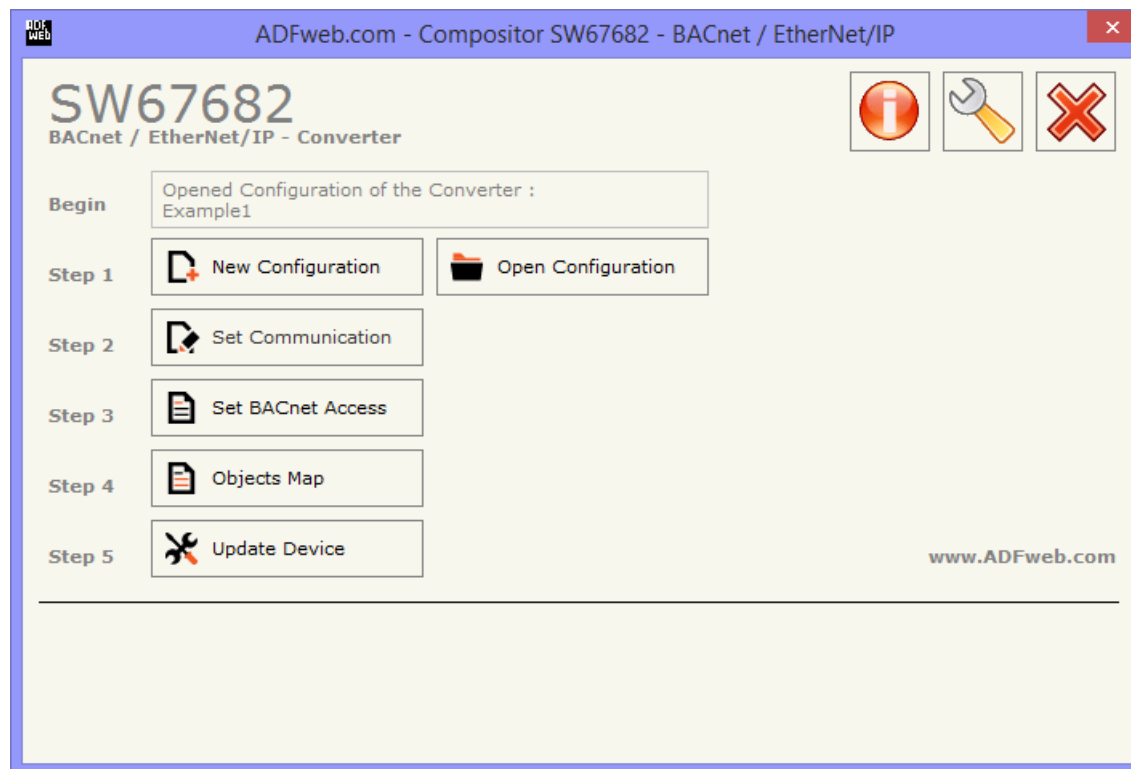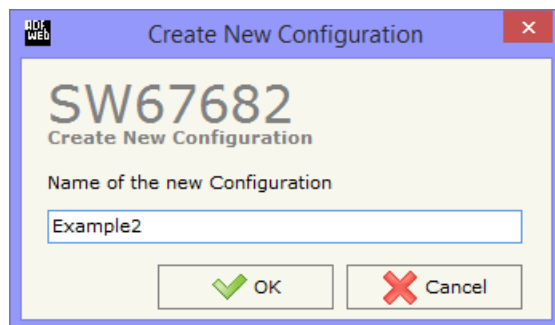   It is necessary to have installed .Net Framework 4.

Figure 2: Main window for SW67682

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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 / EtherNet/IP 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**".
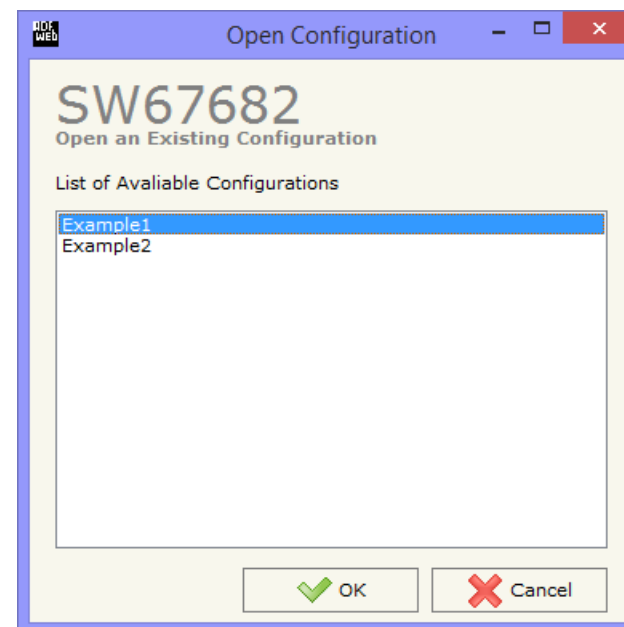
SOFTWARE OPTIONS:

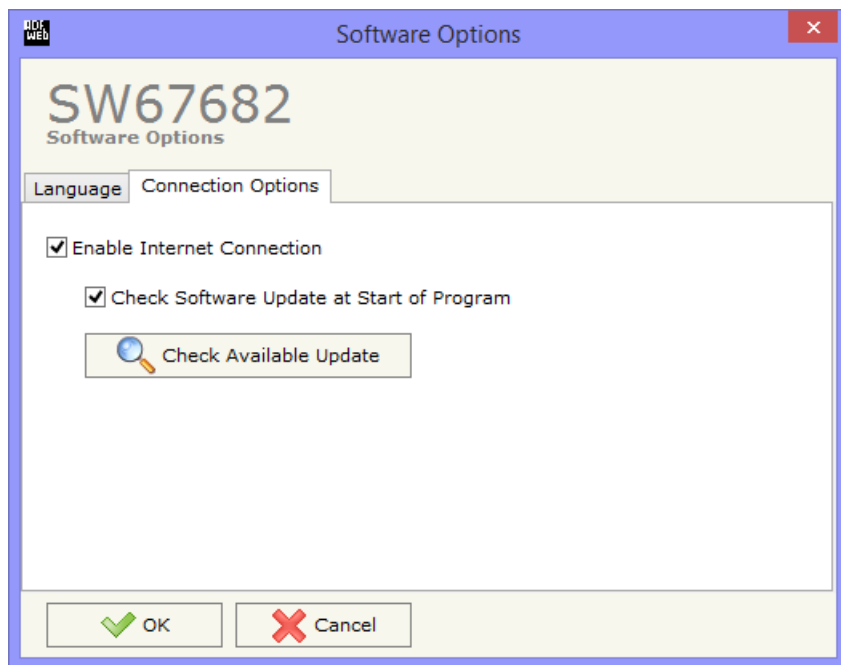By pressing the "**Settings**" (🔧) button there is the possibility to change the language of the software and check the updatings for the compositor.

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 SW67682 check automatically if there are updatings when it is launched.

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SET COMMUNICATION:

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

By Pressing the "**Set Communication**" button from the main window for SW67682 (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 EtherNet/IP parameters.

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

- BACnet/IP (uses ethernet);
- BACnet MS/TP (uses RS485);
- BACnet PTP (uses RS232).

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 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 Identifier**" is possible to assign a number to the BACnet node (Used for the Device Identifier).

The means of the fields for the "EtherNet/IP" section are:

- In the field "**Port**" the port number used for EtherNet/IP communication is defined. The default port used for EtherNet/IP communication is 44818;
- In the field "**Number Byte Input**" insert the number of bytes that the Converter receives from the EtherNet/IP master;
- In the field "**Number Byte Output**" insert the number of bytes that the Converter sends to EtherNet/IP master.
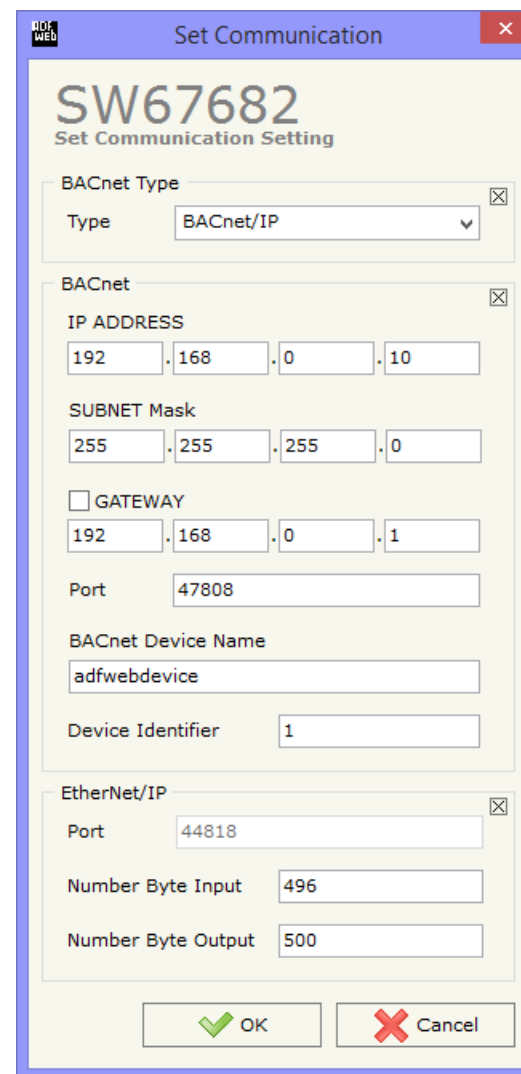
Figure 3: "Set Communication" window

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**" is possible to define the MAC of BACnet node (from 0 to 254);
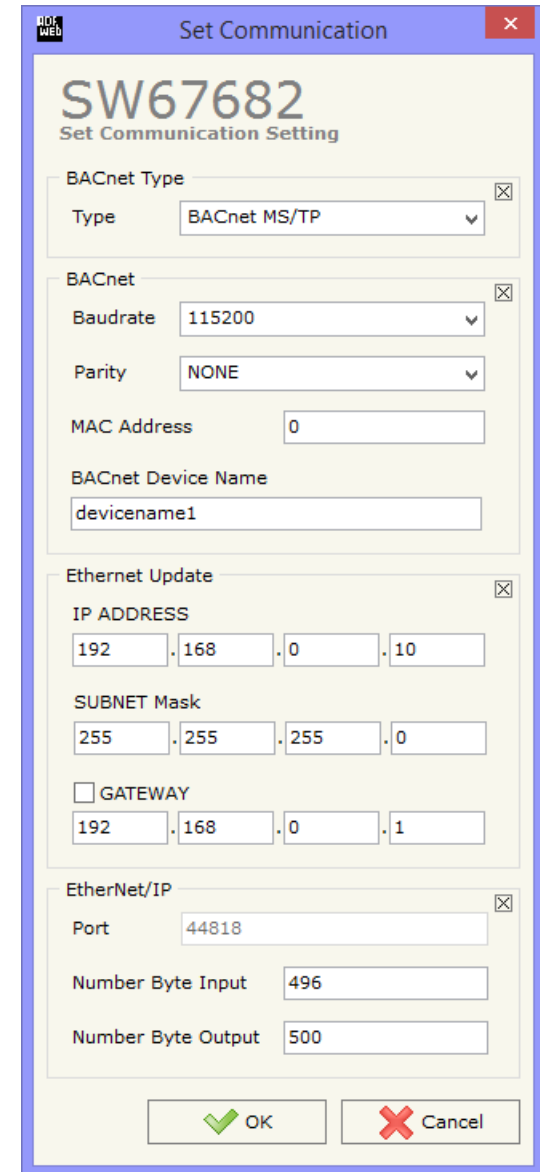
If selected "BACnet PTP" the means of the fields for "BACnet" are:

➔ In the field "**Baudrate**" it is possible to select the baudrate of the BACnet line (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);

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.

SET BACNET ACCESS:

By Pressing the "**Set BACnet Access** " button from the main window for SW67682 (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 EtherNet/IP data associated to these objects arrives to the converter); and "BACnet in write" that contains the BACnet objects writeable by a BACnet master (the EtherNet/IP data associated to these objects are sent by the Converter).
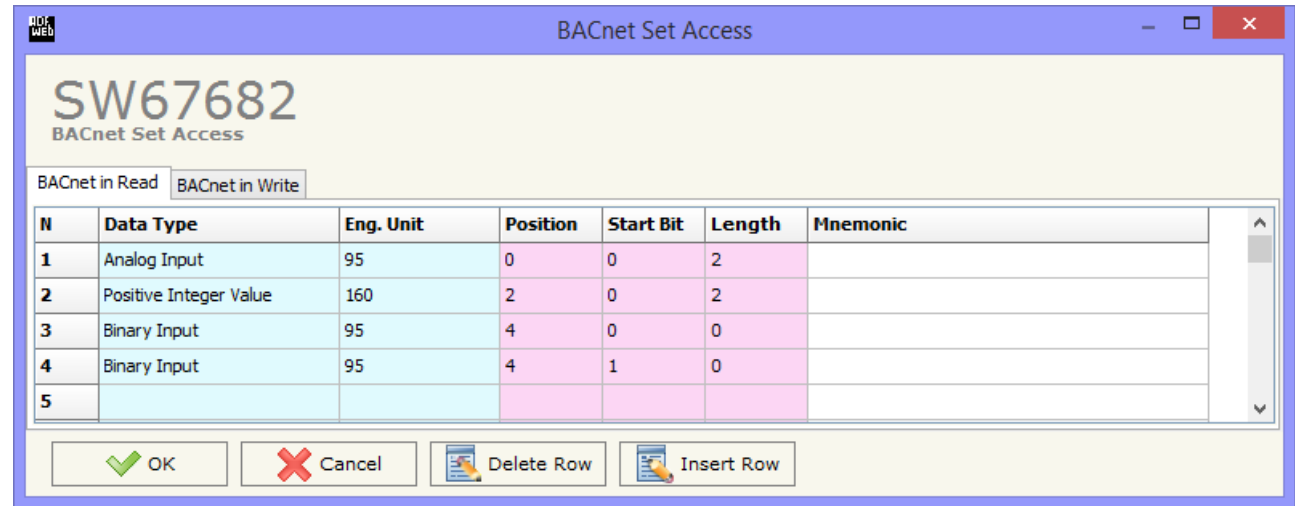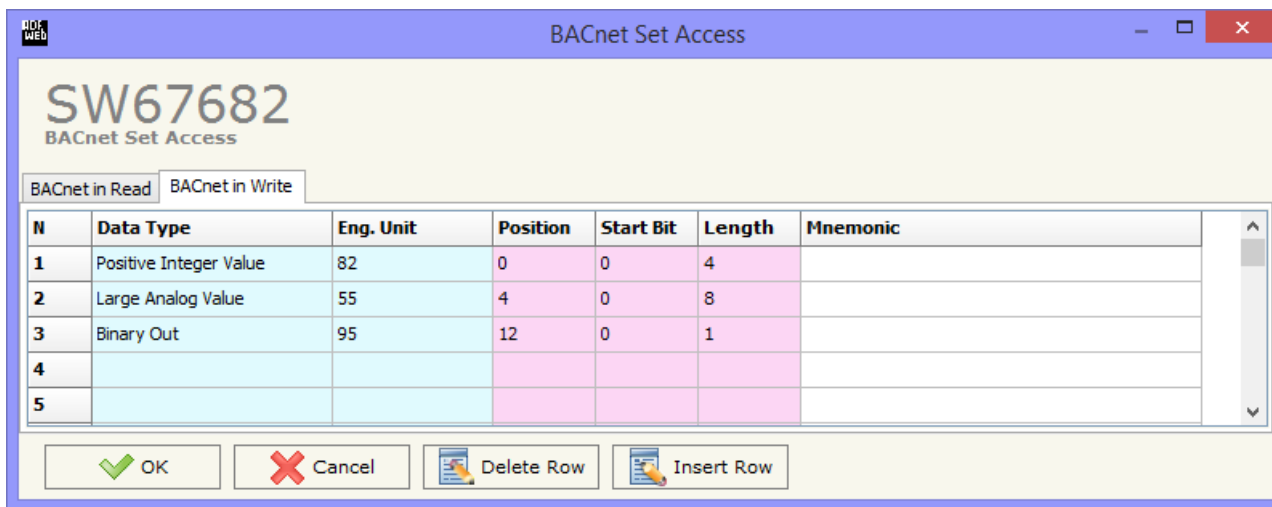
Figure 4: "BACnet Set Access" window

SW67682
BACnet Set Access

BACnet in Read | BACnet in Write

N	Data Type	Eng. Unit	Position	Start Bit	Length	Mnemonic
1	Analog Input	95	0	0	2	
2	Positive Integer Value	160	2	0	2	
3	Binary Input	95	4	0	0	
4	Binary Input	95	4	1	0	
5						

OK   Cancel   Delete Row   Insert Row

SW67682
BACnet Set Access

BACnet in Read | BACnet in Write

N	Data Type	Eng. Unit	Position	Start Bit	Length	Mnemonic
1	Positive Integer Value	82	0	0	4	
2	Large Analog Value	55	4	0	8	
3	Binary Out	95	12	0	1	
4						
5						

OK   Cancel   Delete Row   Insert Row

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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;
- 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 6000 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.

Notes:
    On "BACnet in Write" the dimensions (Length) of the variable is fixed. 'Analog Output' occupies 4 bytes, 'Positive Integer Value' occupies 4 bytes, 'Large Analog Value' occupies 8 bytes and 'Binary Out' occupies 1 byte.

The "BACnet in Write" object are also readable.

For write the data, using 'Present_Value' property, is necessary to use the Type 'Real' for the 'Analog Output', Type 'Double' for the 'Large Analog Value', Type 'Unsigned' for the 'Positive Integer Value' and Type 'Enumerated' for the 'Binary Output'.

The "Mnemonic" field is readable like 'Object_Name' and 'Description' property of BACnet variable.

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.
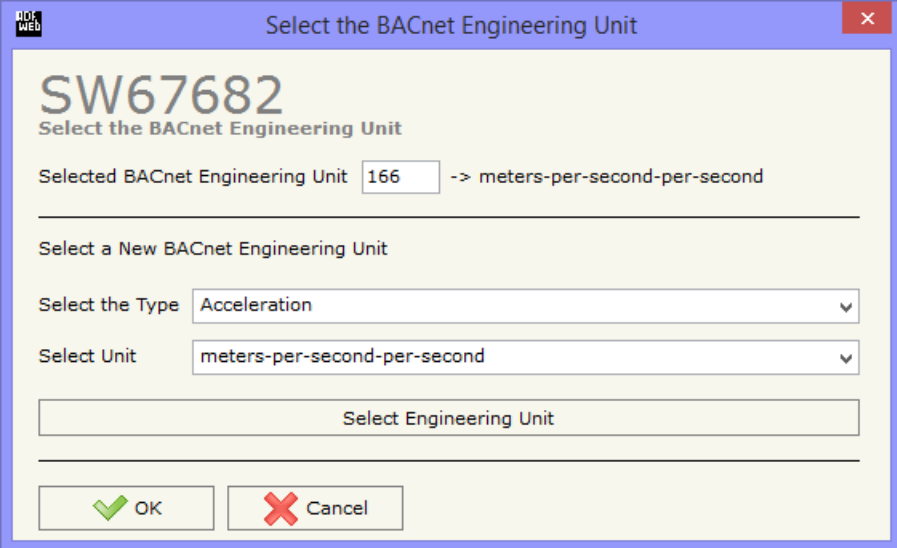

Figure 5: "Select the BACnet Engineering Unit" window

OBJECTS MAP:

By Pressing the "**Objects Map**" button from the main window for SW67682 (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' 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 Dip2 of 'Dip-Switch A' in OFF position;
- Turn on the device.

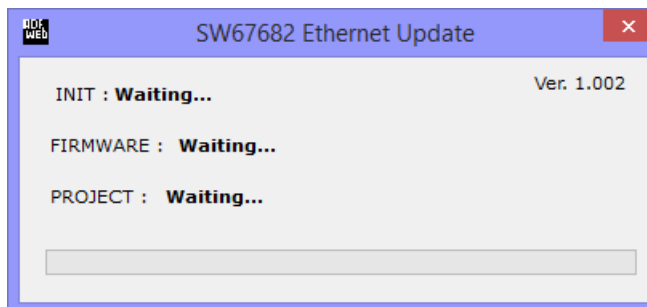At this point the configuration/firmware on the device is correctly updated.
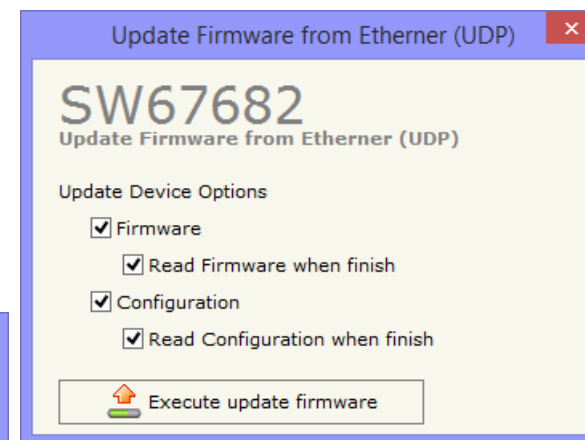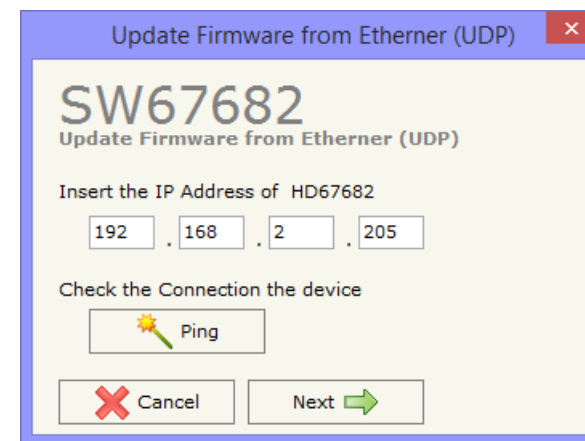
Figure 6: "Update device" windows

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 HD67682 device.

Note:
When you receive the device, for the first time, you also have to update the Firmware in the HD67682 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 update;
→ Try with another PC;
→ Try to restart the PC;
→ If you are using the program inside a Virtual Machine, try to use it in the main Operating System;
→ If you are using Windows Seven or Vista or 8, make sure that you have the administrator privileges;
→ Pay attention to the Firewall lock;
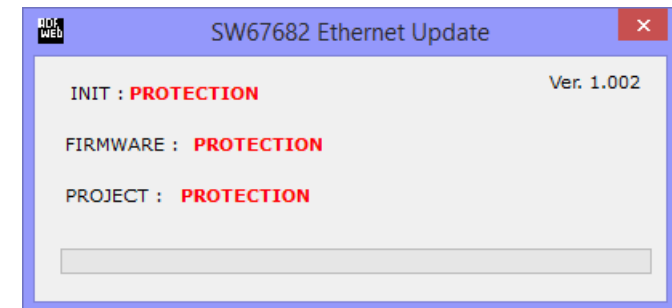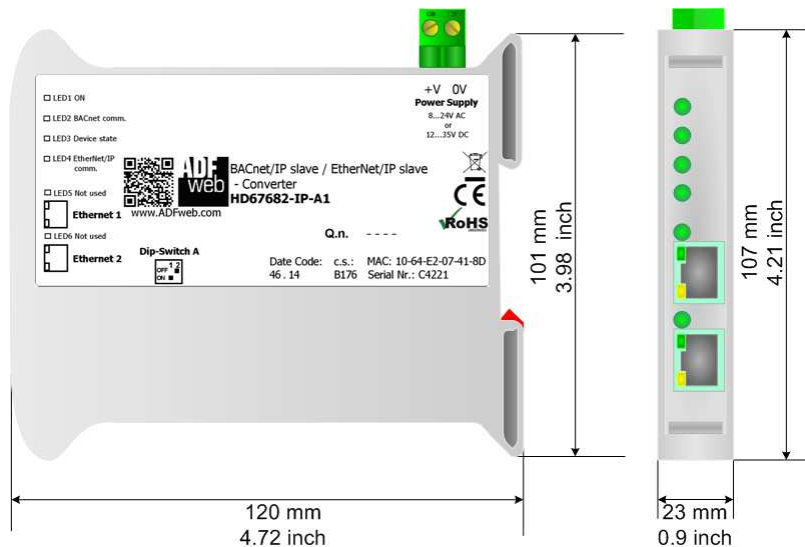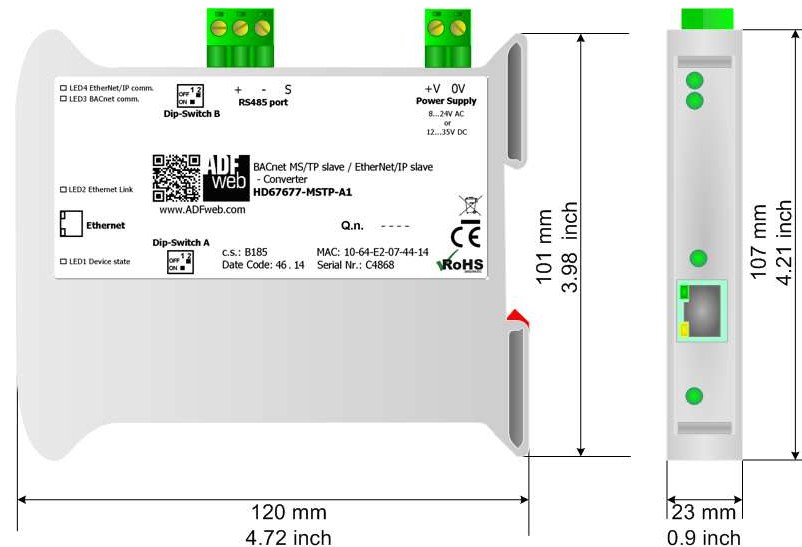→ Check the LAN settings.

Figure 7: "Protection" window

⚠ In the case of HD67682 you have to use the software "SW67682": www.adfweb.com\download\filefold\SW67682.zip.

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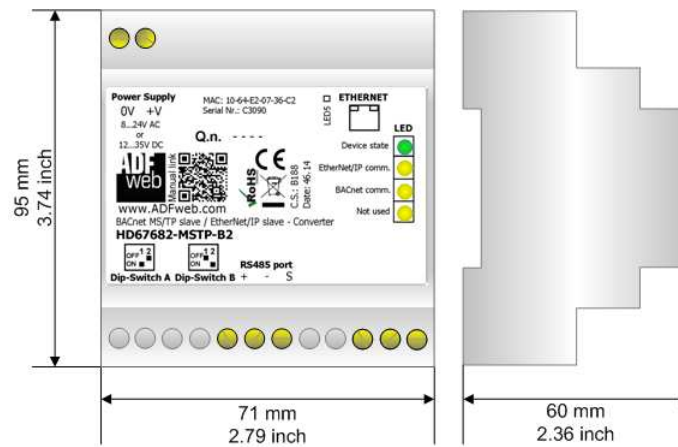
MECHANICAL DIMENSIONS:

Housing: PVC
Weight: 200g (Approx)

Figure 8a: Mechanical dimensions scheme for HD67682-IP-A1

Housing: PVC
Weight: 200g (Approx)

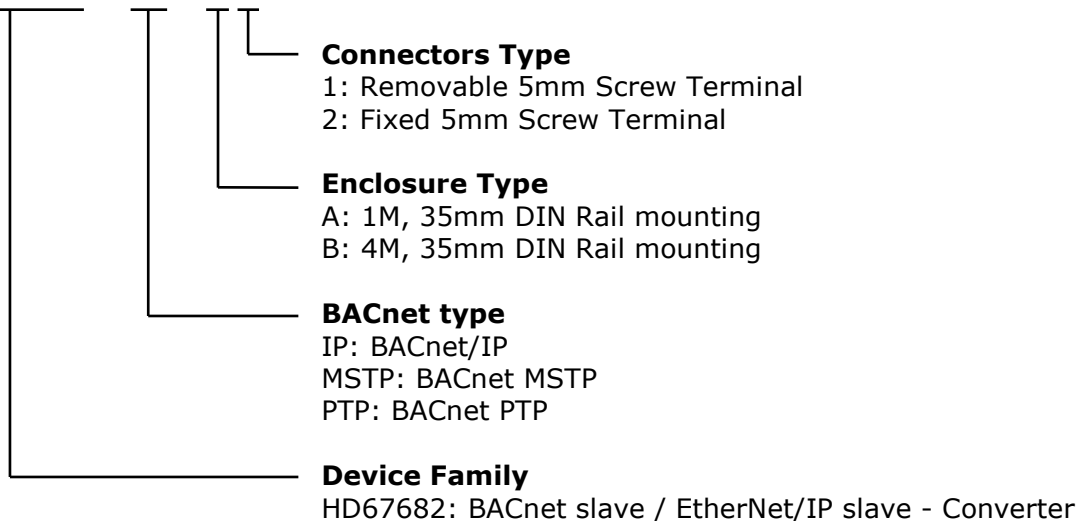*Figure 8b: Mechanical dimensions scheme for HD67682-MSTP-A1*

Housing: PVC
Weight: 200g (Approx)

Figure 8c: Mechanical dimensions scheme for HD67682-MSTP-B2

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ORDERING INFORMATIONS:

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

HD67682 – xxx – x x

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
PTP: BACnet PTP

Device Family
HD67682: BACnet slave / EtherNet/IP slave - Converter

Order Code: **HD67682-IP-A1**   -   BACnet/IP slave / EtherNet/IP slave - Converter
Order Code: **HD67682-MSTP-A1**   -   BACnet MS/TP slave / EtherNet/IP slave - Converter
Order Code: **HD67682-MSTP-B2**   -   BACnet MS/TP slave / EtherNet/IP slave - 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

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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.

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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.

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