User Manual
Revision 1.000
English

EtherNet/IP / NMEA0183 - Converter

(Order Code: HD67587-A1,
HD67587-422-A1)

For Website information:
www.adfweb.com?Product=HD67587

For Price information:
www.adfweb.com?Price=HD67587-A1
www.adfweb.com?Price=HD67587-422-A1

Benefits and Main Features:

⊕ Triple electrical isolation

⊕ Two EtherNet/IP ports

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

User Manual

ADFweb.com S.r.l.

For other EtherNet/IP products see also the following link:

Converter EtherNet/IP to

www.adfweb.com?Product=HD67077	**(M-Bus)**
www.adfweb.com?Product=HD67091	**(M-Bus Wireless)**
www.adfweb.com?Product=HD67159	**(SNMP Agent)**
www.adfweb.com?Product=HD67174	**(SNMP Manager)**
www.adfweb.com?Product=HD67588	**(DMX)**
www.adfweb.com?Product=HD67589	**(NMEA 2000)**
www.adfweb.com?Product=HD67591	**(Modbus Master)**
www.adfweb.com?Product=HD67592	**(Modbus Slave)**
www.adfweb.com?Product=HD67593	**(PROFIBUS Master)**
www.adfweb.com?Product=HD67594	**(PROFIBUS Slave)**
www.adfweb.com?Product=HD67595	**(CAN)**
www.adfweb.com?Product=HD67596	**(CANopen)**
www.adfweb.com?Product=HD67597	**(DeviceNet Master)**
www.adfweb.com?Product=HD67598	**(DeviceNet Slave)**
www.adfweb.com?Product=HD67599	**(J1939)**
www.adfweb.com?Product=HD67627	**(S7comm)**
www.adfweb.com?Product=HD67660	**(PROFINET Slave)**
www.adfweb.com?Product=HD67663	**(Modbus TCP Slave)**
www.adfweb.com?Product=HD67664	**(Modbus TCP Master)**
www.adfweb.com?Product=HD67682	**(BACnet IP Slave)**
www.adfweb.com?Product=HD67722	**(BACnet IP Master)**
www.adfweb.com?Product=HD67744	**(IEC 61850 Server)**
www.adfweb.com?Product=HD67771	**(IEC 61850 Client)**
www.adfweb.com?Product=HD67807	**(KNX)**
www.adfweb.com?Product=HD67840	**(DALI)**
www.adfweb.com?Product=HD67871	**(IO-Link Master)**
www.adfweb.com?Product=HD67906	**(HART)**
www.adfweb.com?Product=HD67945	**(MQTT)**
www.adfweb.com?Product=HD67974	**(IO-Link Slave)**
www.adfweb.com?Product=HD67B16	**(OPC UA Client)**
www.adfweb.com?Product=HD67B39	**(OPC UA Server)**
www.adfweb.com?Product=HD67B78	**(PROFINET Master)**
www.adfweb.com?Product=HD67C63	**(EnOcean)**
www.adfweb.com?Product=HD67D25	**(LoRaWAN)**
www.adfweb.com?Product=HD67E27	**(EtherCAT Slave)**
www.adfweb.com?Product=HD67E77	**(EtherCAT Master)**
www.adfweb.com?Product=HD67F25	**(LoRaWAN Gateway)**

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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	02/04/2025	Ln	All	First release version

WARNING:

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

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SECURITY ALERT:

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

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

QUALIFIED PERSONNEL
The device can be used only by qualified personnel, strictly in accordance with the specifications.
Qualified personnel are persons who are familiar with the installation, assembly, commissioning and operation of this equipment and who have appropriate qualifications for their job.

RESIDUAL RISKS
The device is state-of-the-art and is safe. The instruments can represent a potential hazard if they are inappropriately installed and operated by untrained personnel. These instructions refer to residual risks with the following symbol:
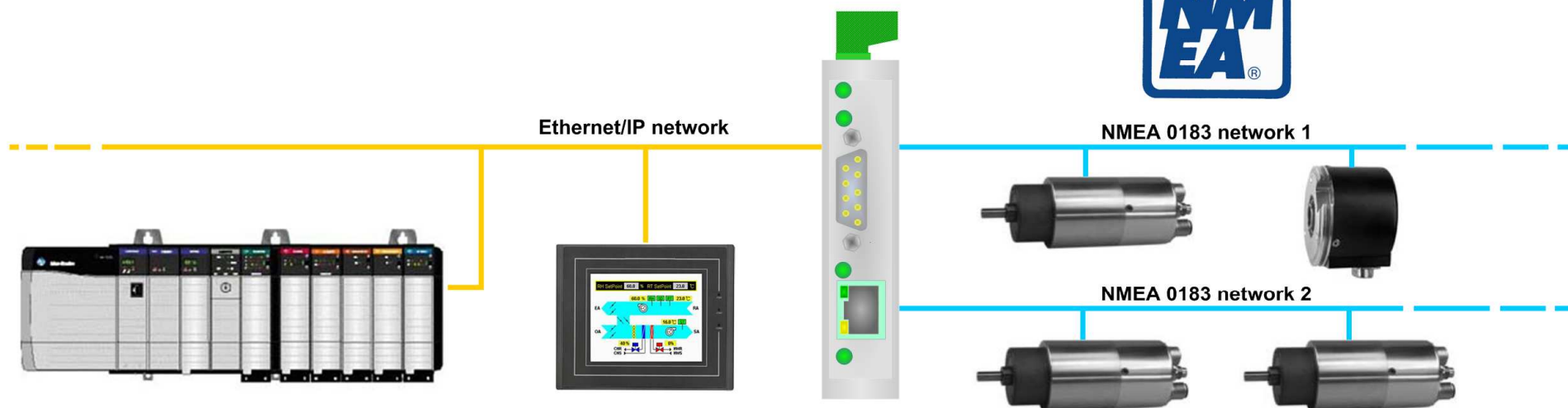
This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.
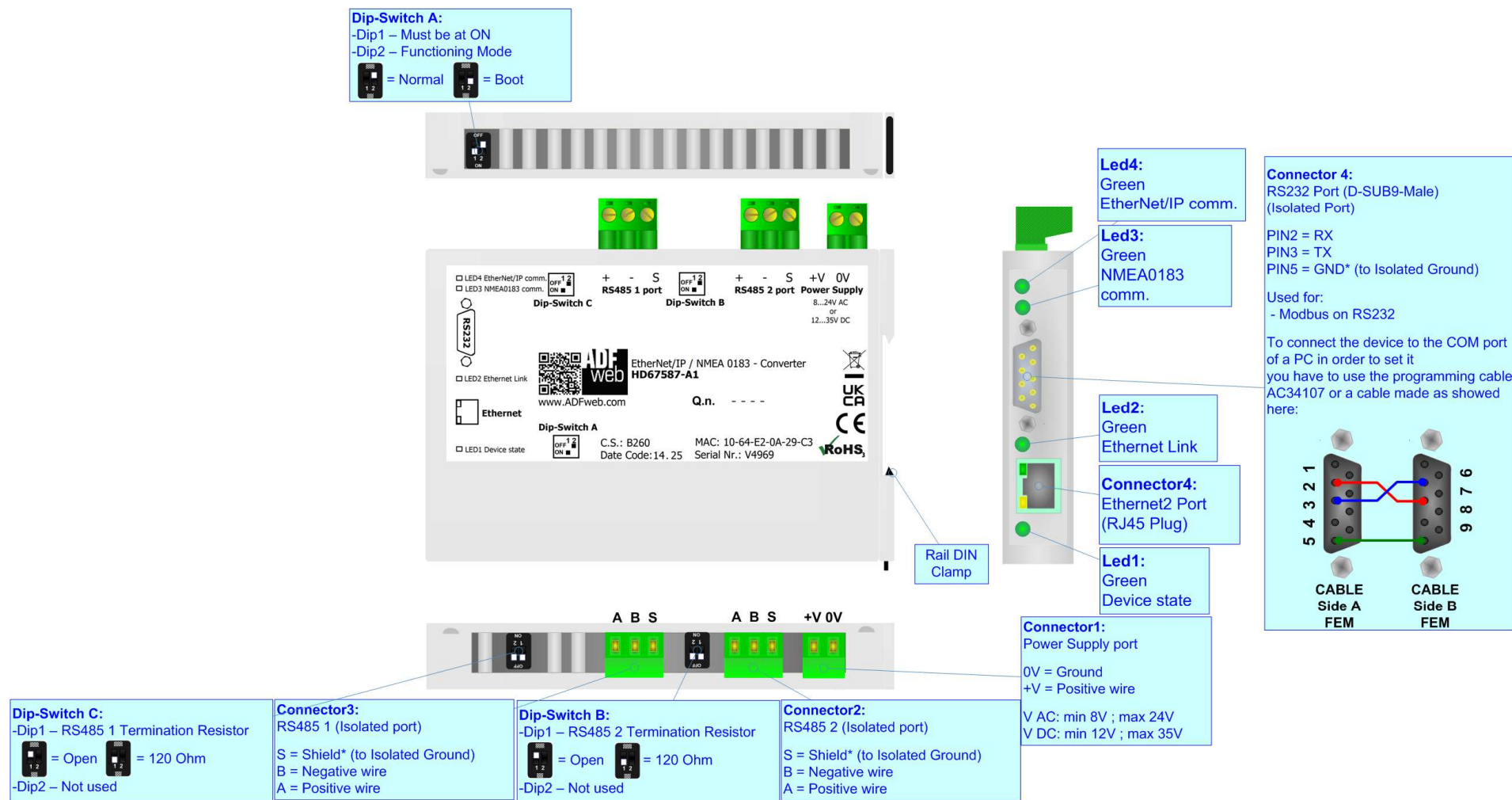
CE CONFORMITY
The declaration is made by our company. You can send an email to support@adfweb.com or give us a call if you need it.
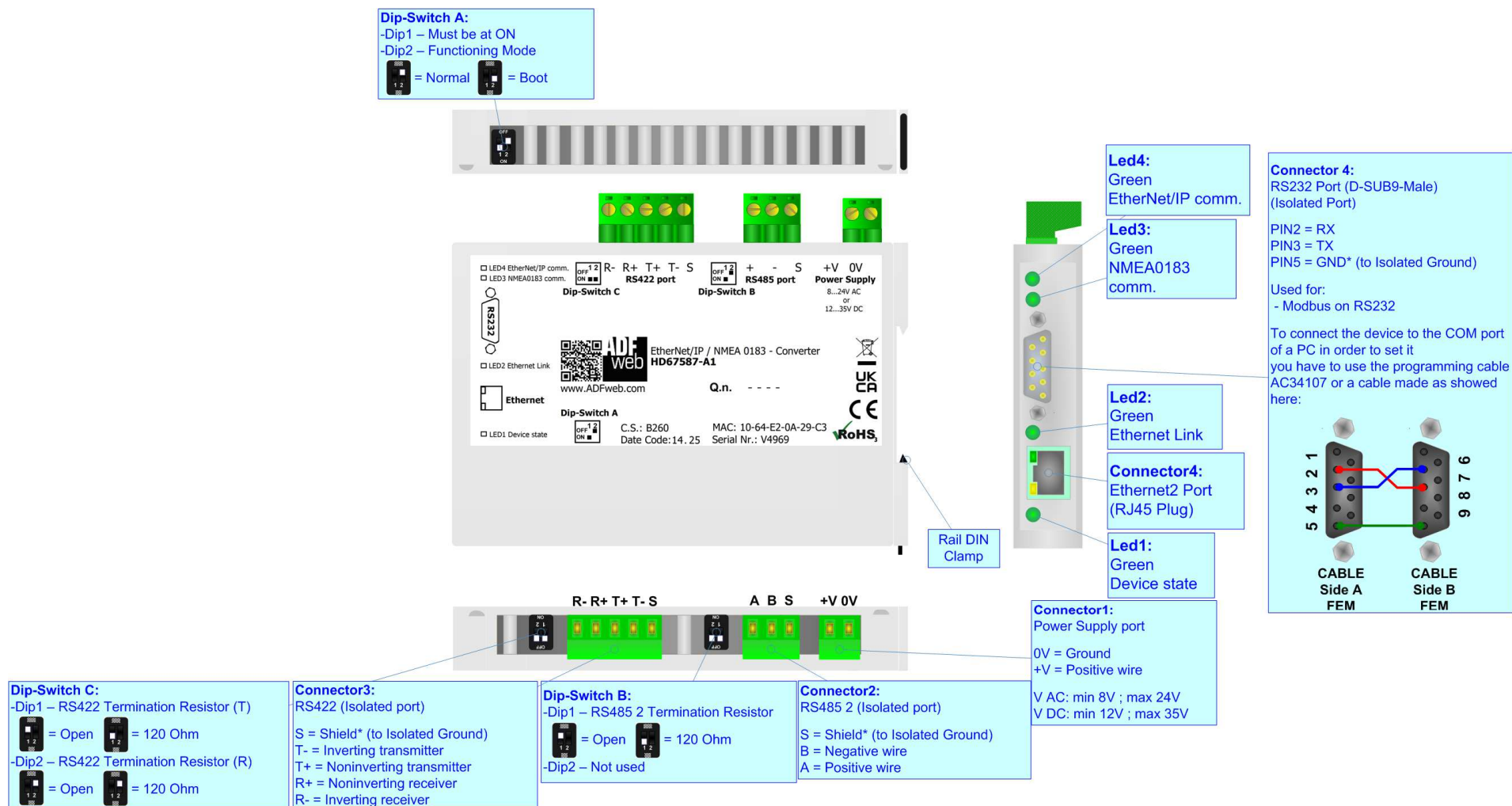
EXAMPLE OF CONNECTION:

HD67587-A1

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CONNECTION SCHEME:

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

= Normal   = Boot

Led4:
Green
EtherNet/IP comm.

Led3:
Green
NMEA0183
comm.

Connector 4:
RS232 Port (D-SUB9-Male)
(Isolated Port)

PIN2 = RX
PIN3 = TX
PIN5 = GND* (to Isolated Ground)

Used for:
- Modbus on RS232

To connect the device to the COM port
of a PC in order to set it
you have to use the programming cable
AC34107 or a cable made as showed
here:

Led2:
Green
Ethernet Link

Connector4:
Ethernet2 Port
(RJ45 Plug)

Led1:
Green
Device state

Rail DIN Clamp

CABLE Side A FEM   **CABLE Side B FEM**

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

Dip-Switch C:
-Dip1 – RS485 1 Termination Resistor

= Open   = 120 Ohm

-Dip2 – Not used

Connector3:
RS485 1 (Isolated port)

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

Dip-Switch B:
-Dip1 – RS485 2 Termination Resistor

= Open   = 120 Ohm

-Dip2 – Not used

Connector2:
RS485 2 (Isolated port)

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

Figure 1a: Connection scheme for HD67587-A1

![ADFweb logo] Industrial Electronic Devices

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

▮ = Normal   ▮ = Boot

Led4:
Green
EtherNet/IP comm.

Led3:
Green
NMEA0183
comm.

Led2:
Green
Ethernet Link

Connector4:
Ethernet2 Port
(RJ45 Plug)

Led1:
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Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

Rail DIN Clamp

LED4 EtherNet/IP comm.
LED3 NMEA0183 comm.
R- R+ T+ T- S
RS422 port
Dip-Switch C
+ - S
RS485 port
Dip-Switch B
+V 0V
Power Supply
8...24V AC
or
12...35V DC

RS232

LED2 Ethernet Link

Ethernet

LED1 Device state

EtherNet/IP / NMEA 0183 - Converter
HD67587-A1
www.ADFweb.com   Q.n. - - - -
Dip-Switch A
C.S.: B260   MAC: 10-64-E2-0A-29-C3
Date Code:14. 25   Serial Nr.: V4969
RoHS₃

R- R+ T+ T- S   A B S   +V 0V

Dip-Switch C:
-Dip1 – RS422 Termination Resistor (T)

▮ = Open   ▮ = 120 Ohm

-Dip2 – RS422 Termination Resistor (R)

▮ = Open   ▮ = 120 Ohm

Connector3:
RS422 (Isolated port)

S = Shield* (to Isolated Ground)
T- = Inverting transmitter
T+ = Noninverting transmitter
R+ = Noninverting receiver
R- = Inverting receiver

Dip-Switch B:
-Dip1 – RS485 2 Termination Resistor

▮ = Open   ▮ = 120 Ohm

-Dip2 – Not used

Connector2:
RS485 2 (Isolated port)

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

Figure 1b: Connection scheme for HD67587-422-A1

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CHARACTERISTICS:

The HD67587-A1 and HD67587-422-A1 are a EtherNet/IP / NMEA0183 Converter.

It allows the following characteristics:

- Up to 496 bytes in reading and 496 bytes in writing;
- Two-directional information between Serial bus and EtherNet/IP 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 SW67587 software on your PC in order to perform the following:

- Define the parameter of EtherNet/IP line;
- Define the list of NMEA 0183 sentences in reception;
- Update the device.

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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]
HD67587-A1	3.5
HD67587-422-A1	3.5

Caution: Not reverse the polarity power

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

HD67587-xxx-A1

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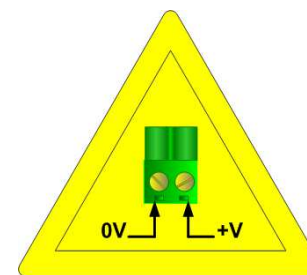
FUNCTION MODES:

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

- The first, with Dip1 in Off position (factory setting), is used for the normal working of the device.
- The second, with Dip1 in On position, is used for upload the Project/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).

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

= Normal   = Boot

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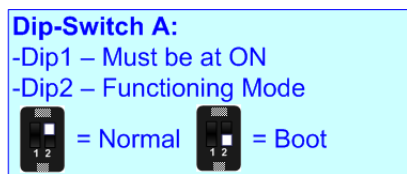
LEDS:

The device has got 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 (green)	Blinks slowly (~1Hz)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
2: Ethernet Link (green)	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected
3: NMEA0183 comm. (green)	Blinks when NMEA 0183 frames are received	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
5: EtherNet/IP comm. (green)	Blinks when EtherNet/IP communication is running	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress

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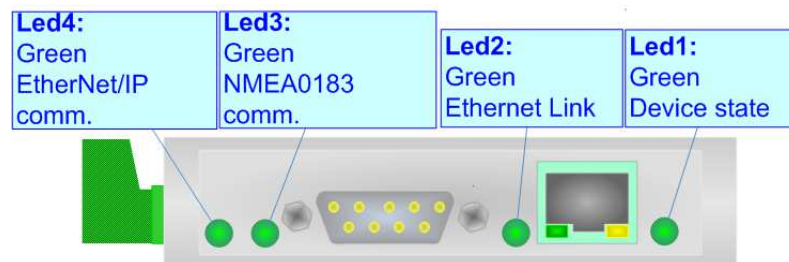
ETHERNET/IP:

The Ethernet/IP connection must be made using Connector3 and/or Connector4 of HD67587-xxx-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.

Connector4:
Ethernet port
(RJ45 Plug)
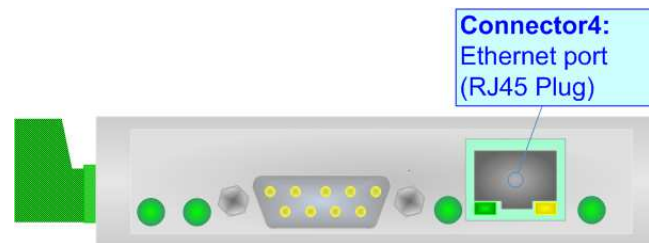
RS232:

The connection from RS232 socket to a serial port 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.

Connector 4:
RS232 Port (D-SUB9-Male)
(Isolated Port)

PIN2 = RX
PIN3 = TX
PIN5 = GND* (to Isolated Ground)

Used for:
 - Modbus on RS232

To connect the device to the COM port of a PC in order to set it
you have to use the programming cable AC34107 or a cable made as showed here:

CABLE
Side A
FEM

CABLE
Side B
FEM

Industrial Electronic Devices
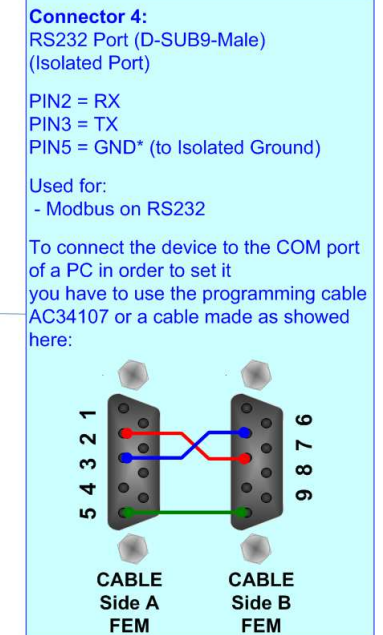
RS485:

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

Connector2:
RS485 2 (Isolated port)

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

Dip-Switch B:
-Dip1 – RS485 2 Termination Resistor

= Open   = 120 Ohm

-Dip2 – Not used

Connector3:
RS485 1 (Isolated port)

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

Dip-Switch C:
-Dip1 – RS485 1 Termination Resistor

= Open   = 120 Ohm

-Dip2 – Not used
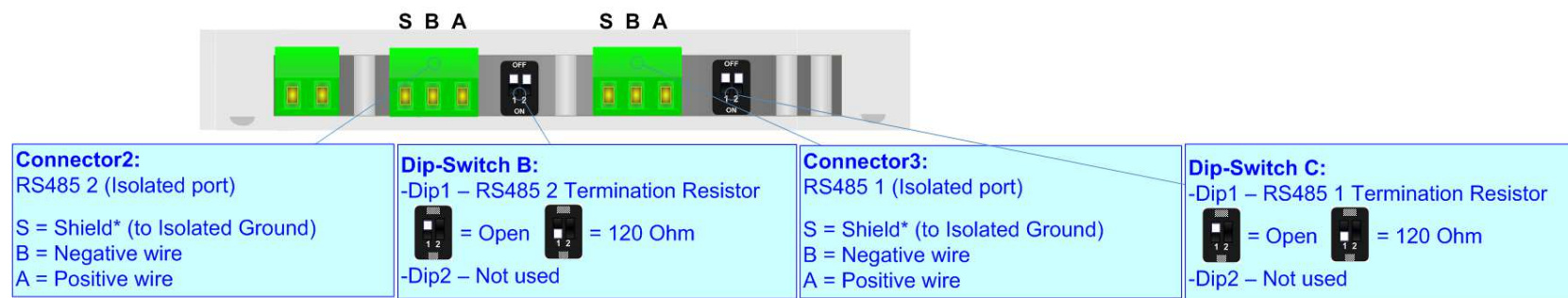
The maximum length of the cable should be 1200m (4000 feet).

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.

RS422:

For terminate the RS422 line with a 120Ω resistor it is necessary to put ON dip 1 for T line and/or put ON dip 2 for R line, like in figure.
The maximum length of the cable should be 1200m (4000 feet).

Connector3:
RS422 (Isolated port)

S = Shield* (to Isolated Ground)
T- = Inverting transmitter
T+ = Noninverting transmitter
R+ = Noninverting receiver
R- = Inverting receiver

Dip-Switch C:
-Dip1 – RS422 Termination Resistor (T)

= Open   = 120 Ohm

-Dip2 – RS422 Termination Resistor (R)

= Open   = 120 Ohm

Industrial Electronic Devices
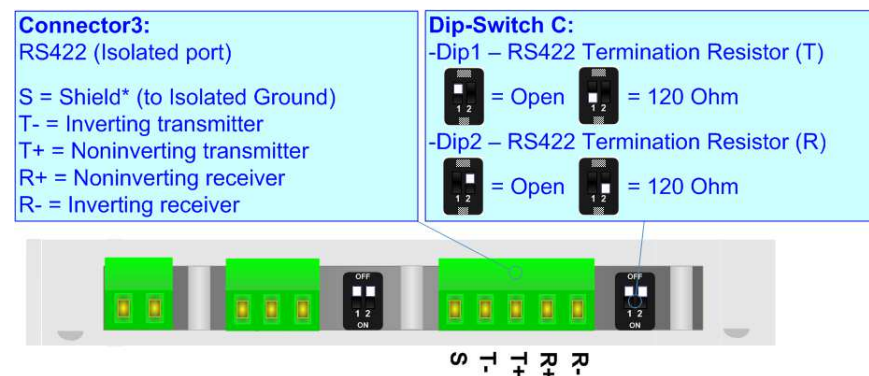
USE OF COMPOSITOR SW67587:

To configure the Converter, use the available software that runs with Windows called SW67587. 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 SW67587, the window below appears (Fig. 2).

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

Figure 2: Main window for SW67587

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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 "EtherNet/IP / NMEA0183 - 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**".
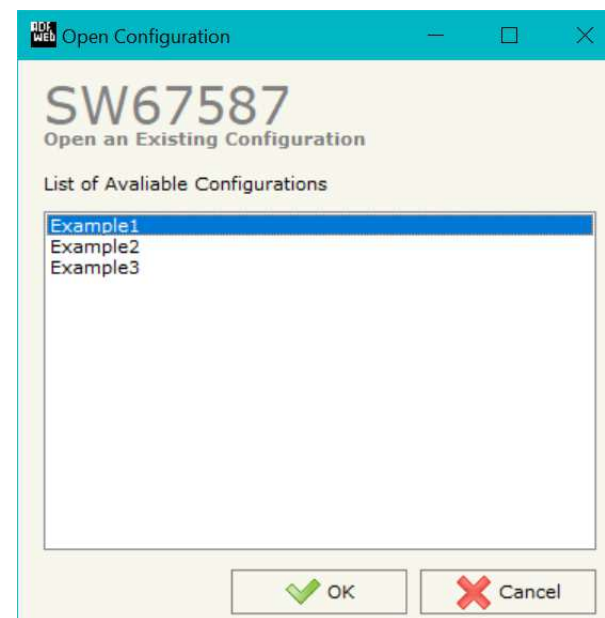
SOFTWARE OPTIONS:

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.
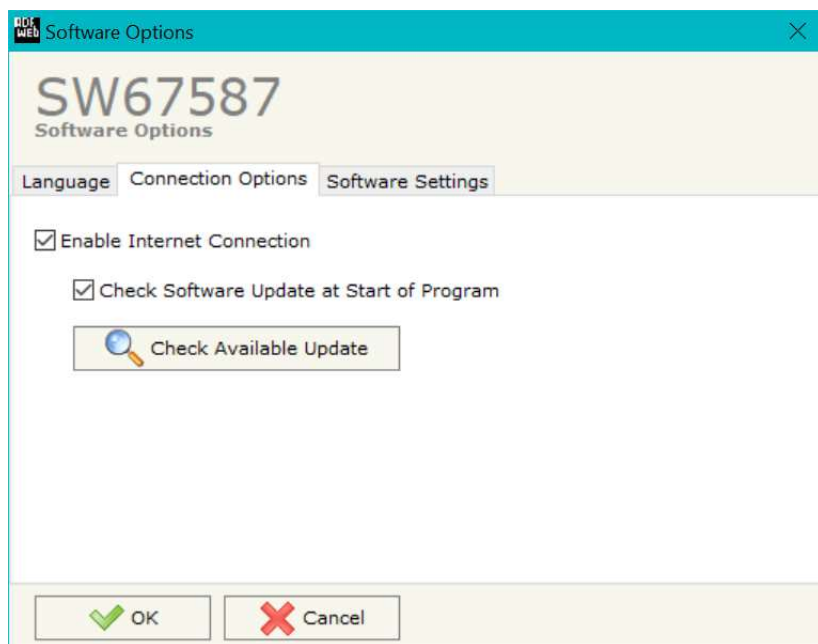
In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website.
Checking the option "**Check Software Update at Start of Program**", the SW67587 check automatically if there are updatings when it is launched.

Software Options

SW67587
Software Options

Language   Connection Options   Software Settings

☐ Jump into next field in the tables by pressing the Enter Key
☐ Enable Auto Size of Table Columns by Double Click

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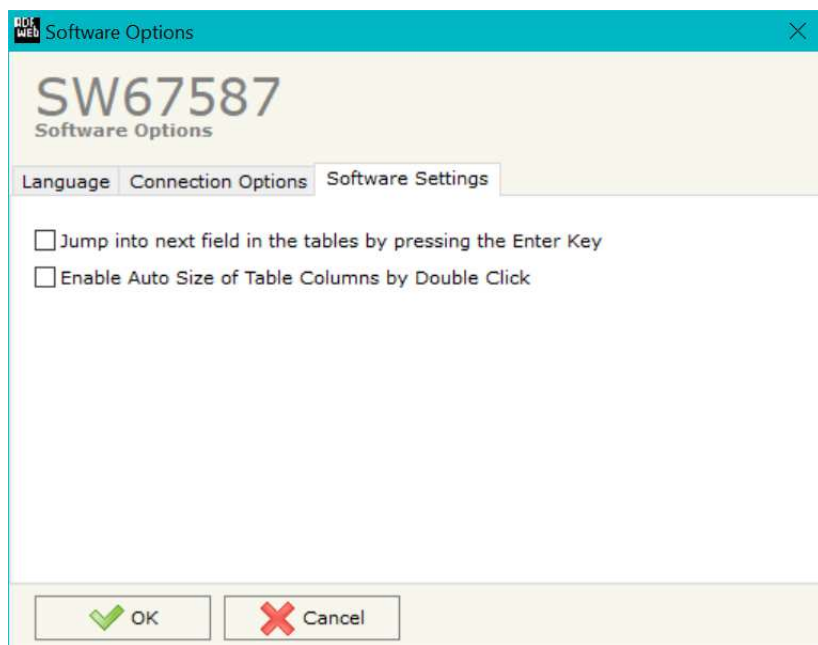
In the section "Software Settings", it is possible to enable/disable some keyboard's commands for an easier navigation inside the tables contained in the different sections of the software.

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SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, EtherNet/IP and NMEA0183.

By Pressing the "**Set Communication**" button from the main window for SW67587 (Fig. 2) the window "Set Communication" appears (Fig. 3).
The window is divided in two sections, one for the EtherNet/IP and the other for the NMEA0183.

The means of the fields for "Ethernet Connection" are:

→ In the field "**Device Name (Hostname)**" the Hostname to assign to the converter is defined;
→ If the field "**Obtain an IP Address Automatically (DHCP for Cable Connection)**" is checked, DHCP for LAN connection is enabled;
→ If the field "**Enable DNS**" is checked, DNS protocol is enabled;
→ In the field "**Primary DNS**" the IP Address of the primary DNS server is defined;
→ In the field "**Secondary DNS**" the IP Address of the secondary DNS server is defined.

The means of the fields for "EtherNet/IP" 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 for the EtherNet/IP communication is defined (fixed to '44818');
→ In the field "**Number Bytes Input**" the number of input bytes of the converter is defined;
→ In the field "**Number Bytes Output**" the number of output bytes of the converter is defined.

Figure 3a: "Set Communication" window

The means of the fields for "RS232" are:

➤ If the field "**Enable RS232**" is checked, the serial port is enabled;
➤ In the field "**Baudrate**" the baudrate for the serial line is defined;
➤ In the field "**Parity**" the parity of the serial line is defined;
➤ In the field "**Stop Bits**" the number of stop bits of the serial line is defined.

The means of the fields for "RS485 / RS422" are:

➤ If the field "**Enable RS485 / RS422**" is checked, the serial port is enabled;
➤ In the field "**Baudrate**" the baudrate for the serial line is defined;
➤ In the field "**Parity**" the parity of the serial line is defined;
➤ In the field "**Stop Bits**" the number of stop bits of the serial line is defined.

The means of the fields for "RS485 2" are:

➤ If the field "**Enable RS485 2**" is checked, the serial port is enabled;
➤ In the field "**Baudrate**" the baudrate for the serial line is defined;
➤ In the field "**Parity**" the parity of the serial line is defined;
➤ In the field "**Stop Bits**" the number of stop bits of the serial line is defined.

Figure 3b: "Set Communication" window

RECEIVE FRAMES:

By pressing the "**NMEA 0183 Access**" button from the main window for SW67587 (Fig. 2) the "Definition of NMEA 0183 Sentences" window appears (Fig. 4).
The NMEA 0183 sentences inserted in this table contain the output data of EtherNet/IP. These sentences are accepted by the converter.

Figure 4: "Definition of NMEA 0183 Sentences" window

The data of the columns have the following meanings:

- If the field "**Enable**" is checked, the NMEA 0183 sentence is enabled;
- In the field "**Serial Channel**" the serial port from which the sentence will be received is defined;
- In the field "**Sentence**" the NMEA 0183 sentence is defined;
- In the field "**Index**" the index of the selected sentence is defined;
- In the field "**Data Field**" the parameter of the selected sentence to map on Modbus side is defined;
- In the field "**Post operation**" the post operation on the data received is defined;
- If the field "**Swap All**" is checked, the bytes order on Modbus side will be reversed;
- If the field "**Swap 16**" is checked, a swap by word will be applied;
- In the field "**Position**" the byte of the memory array where mapping the data is defined;
- In the field "**Mnemonic**" a brief description is defined.

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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.

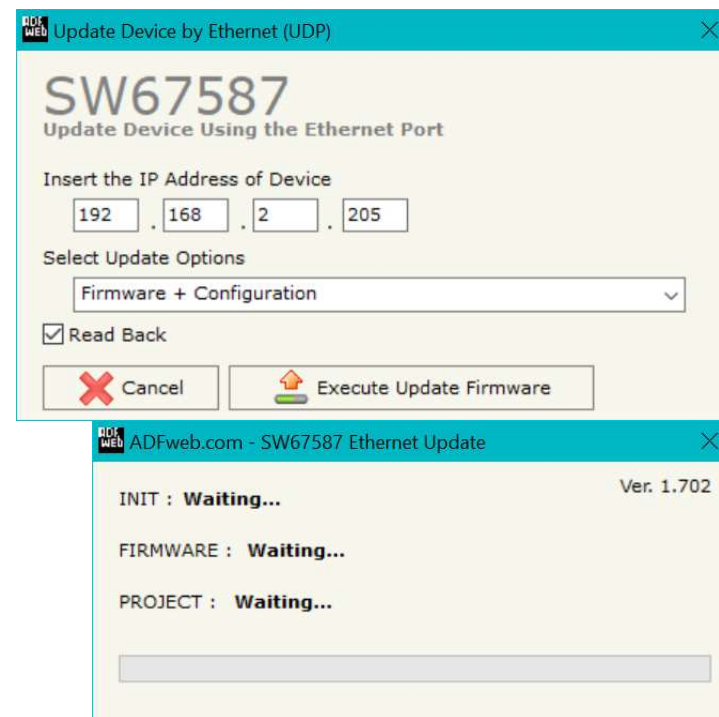At this point the configuration/firmware on the device is correctly updated.

Figure 5: "Update device" windows

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Note:
When you receive the device, for the first time, you also have to update the Firmware in the HD67587 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.
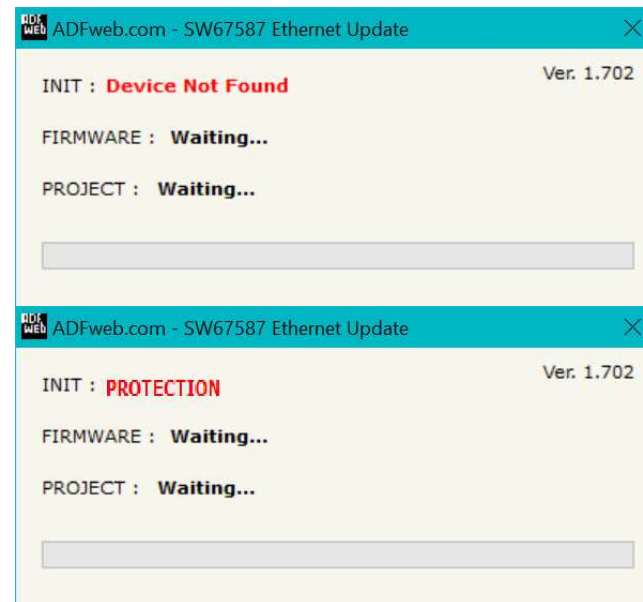
Figure 6: "Error" window

Warning:
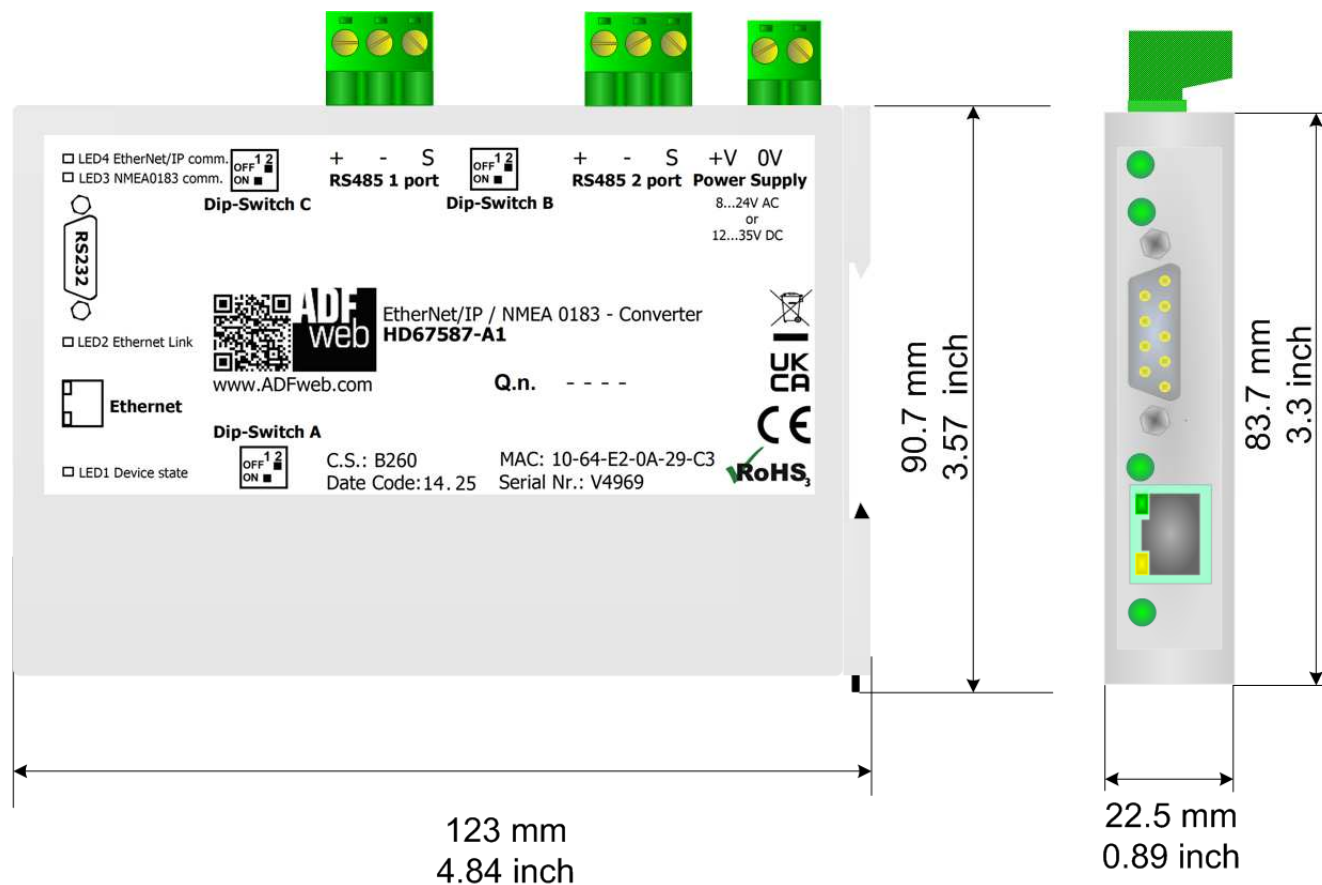In the case of HD67587 you have to use the software "HD67587": www.adfweb.com\download\filefold\SW67587.zip.

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MECHANICAL DIMENSIONS:

Figure 7a: Mechanical dimensions scheme for HD67587-A1

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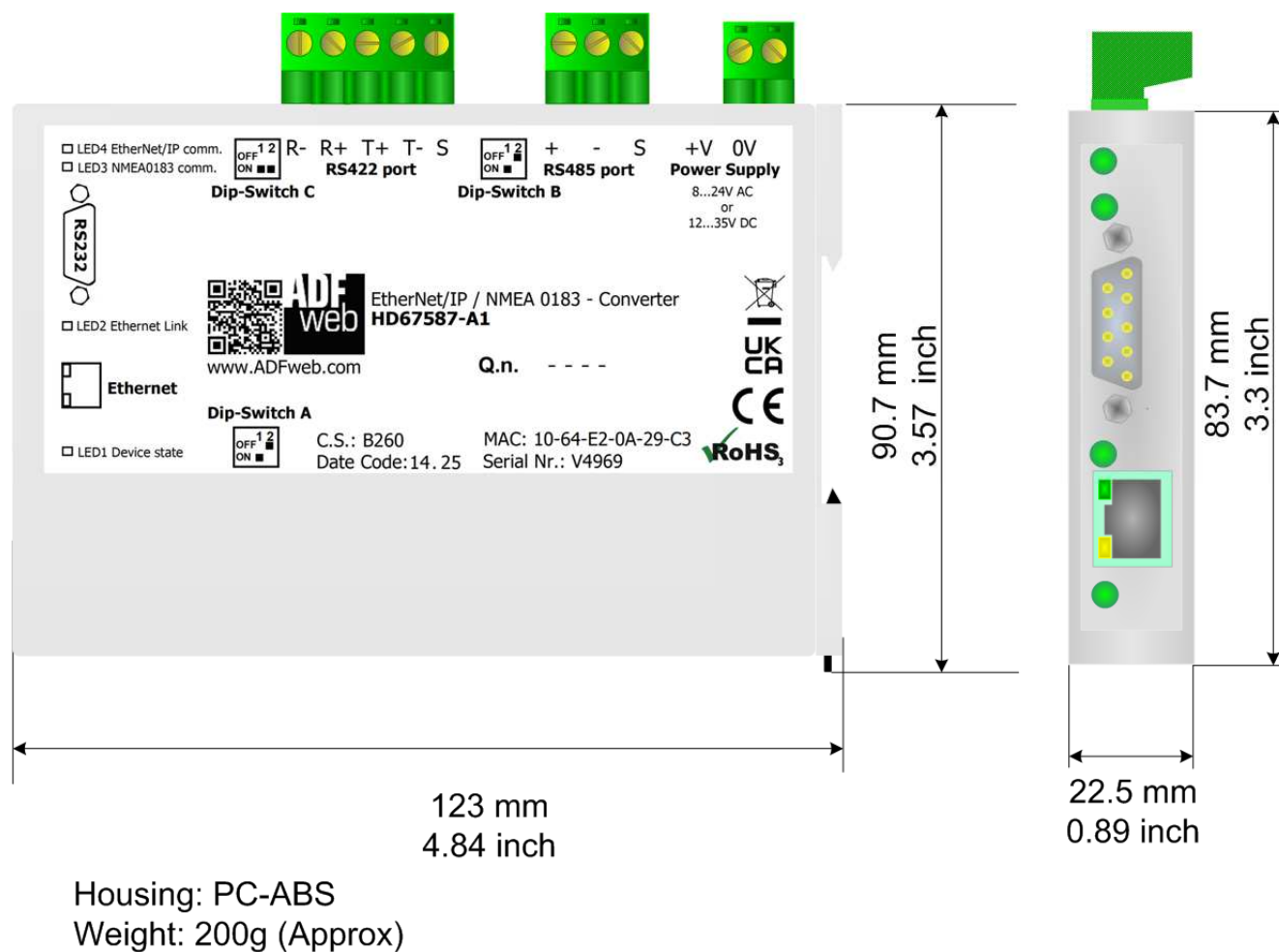
Figure 7b: Mechanical dimensions scheme for HD67587-422-A1

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

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ORDERING INFORMATIONS:

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

HD67587 - xxx – A 1

Connectors Type
1: Removable 5mm Screw Terminal

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

Serial Line
422: RS422

Device Family
HD67587: EtherNet/IP / NMEA0183 - Converter
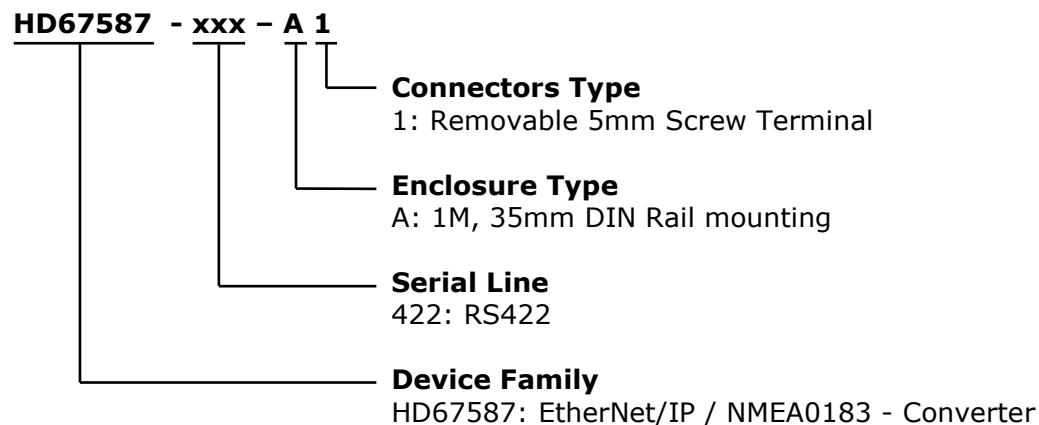
Order Code: **HD67587-A1**   -   EtherNet/IP / NMEA0183 - Converter
Order Code: **HD67587-422-A1** -   EtherNet/IP / NMEA0183 - Converter (RS422 serial)

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

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PLC CONFIGURATION:

The configuration and commissioning of the EtherNet/IP Converter as described on the following pages was accomplished with the help of the "RSLogix 5000" software of Rockwell Automation. In case of using a control system from another supplier please attend to the associated documentation.
These are the steps to follow:

1) Create a "Generic Ethernet Module" under the Ethernet section in the I/O Configuration tree.

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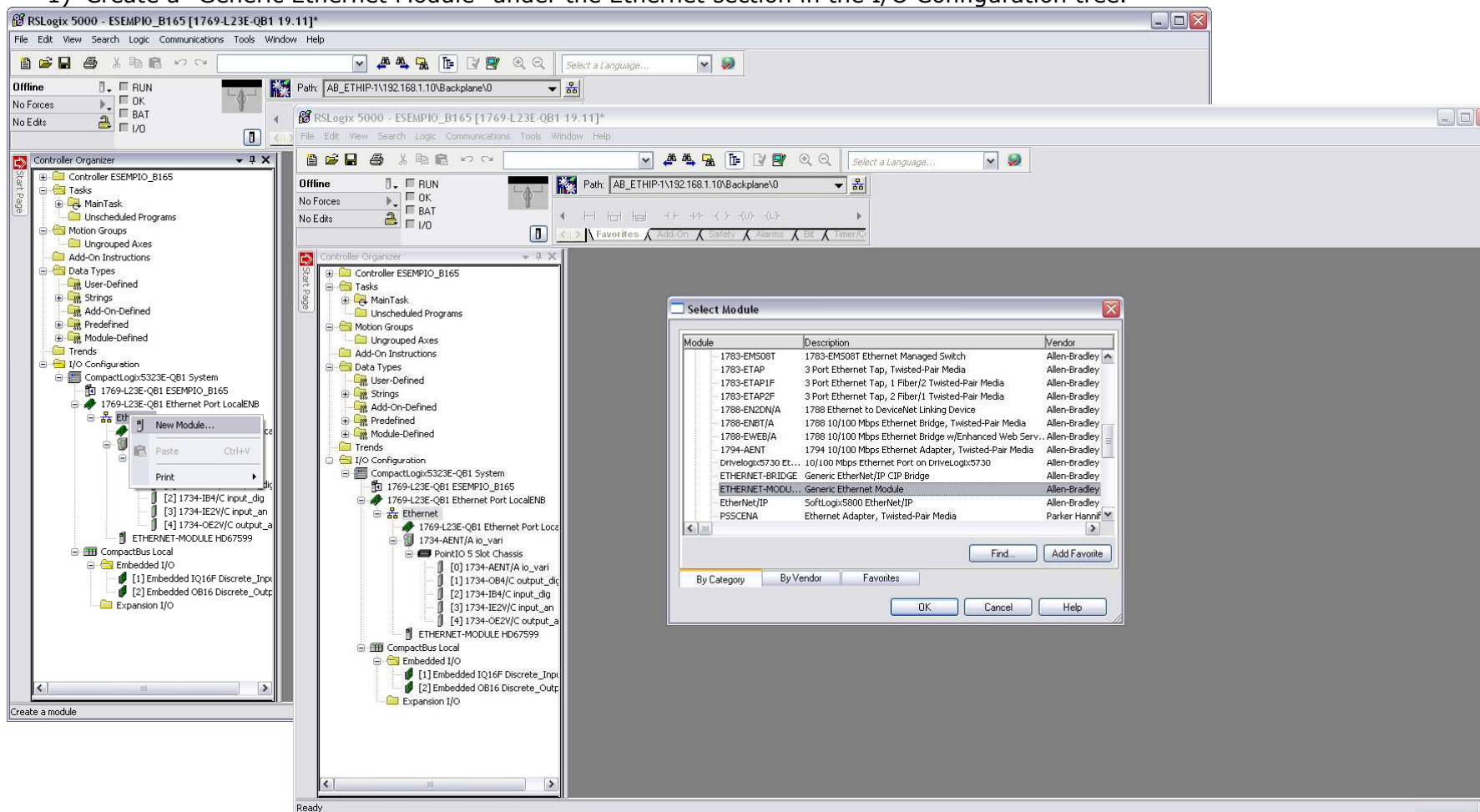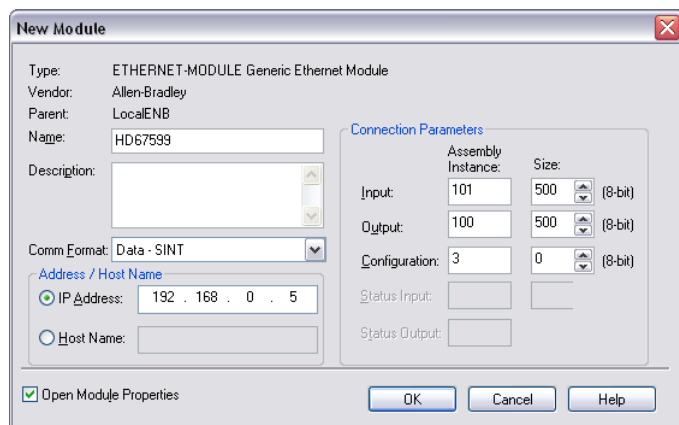
2) Edit the settings of the new Generic Ethernet Module. As shown in the screen shot below, the module was named "HD67590" and the IP-address assigned is 192.168.0.5.

For the Comm Format "Data – SINT" shall be selected as the data type.

The HD67590-xxx-A1 can uses up to 496 bytes for input assembly instance 101 and 496 bytes for output assembly instance 100.

RSLogix 5000 requires a configuration assembly instance. Both modules do not provide a configuration assembly instance. Therefore it is allowed to select an instance of 3 and to set the value to zero.

3) The setting of 10msec for the "Requested Packet Interval (RPI)" is adequate but it is possible to change this value as required. A lower value of 2ms shall not be selected.
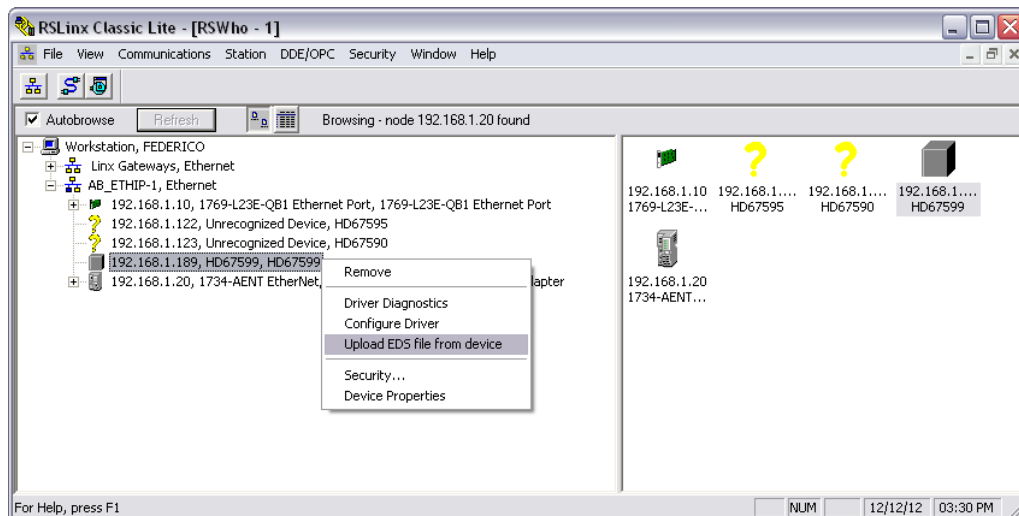
Warning:
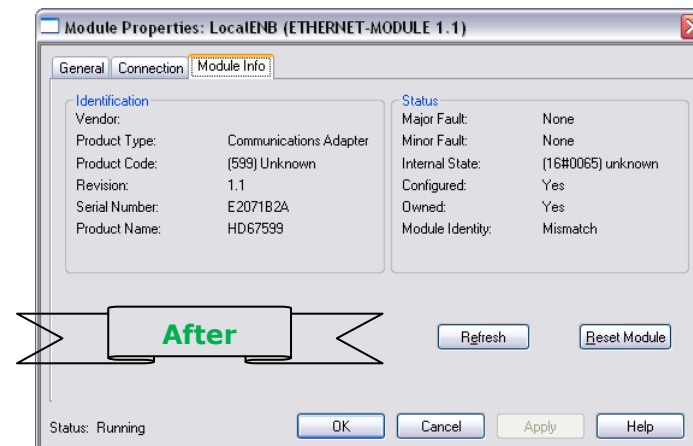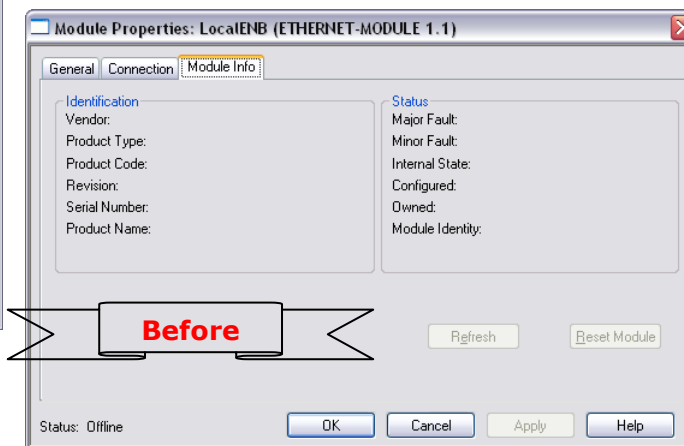The field "Use Unicast Connection over EtherNet/IP" must be checked.
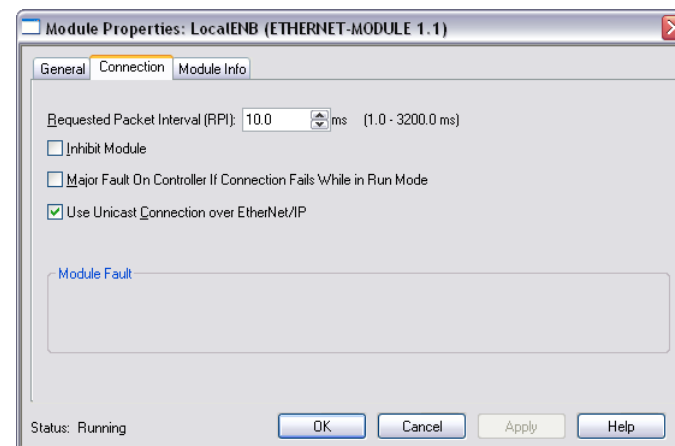
4) After the configuration is completed, the controller tags are created.

5) With "RSLinks Classic Lite", after have done a network scan (RSWho), and finding the EtherNet/IP device, it is possible to load the EDS file for the device in order to have the "Module Info" compiled.

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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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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.