Industrial Electronic Devices

User Manual

Revision 1.000
English

J1939 / SNMP - Converter

(Order Code: HD67162-A1, HD67162-B2)

for Website information:
www.adfweb.com?Product=HD67162

for Price information:
www.adfweb.com?Price=HD67162-A1
www.adfweb.com?Price=HD67162-B2

Benefits and Main Features:

⊕ Very easy to configure

⊕ Electrical isolation

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

User Manual

For others SNMP Agent products, see also the following links:

Converter SNMP to

www.adfweb.com?Product=HD67B23	**(OPC UA Client)**
www.adfweb.com?Product=HD67B48	**(OPC UA Server)**
www.adfweb.com?Product=HD67E25	**(EtherCAT)**
www.adfweb.com?Product=HD67C79	**(EnOcean)**
www.adfweb.com?Product=HD67D41	**(LoRaWAN)**
www.adfweb.com?Product=HD67040	**(DMX)**
www.adfweb.com?Product=HD67092	**(M-Bus Wireless)**
www.adfweb.com?Product=HD67155	**(CAN)**
www.adfweb.com?Product=HD67156	**(CANopen)**
www.adfweb.com?Product=HD67158	**(EtherNet/IP)**
www.adfweb.com?Product=HD67159	**(EtherNet/IP Master)**
www.adfweb.com?Product=HD67160	**(DeviceNet Master)**
www.adfweb.com?Product=HD67161	**(DeviceNet Slave)**
www.adfweb.com?Product=HD67163	**(M-Bus Master)**
www.adfweb.com?Product=HD67164	**(Modbus Master)**
www.adfweb.com?Product=HD67165	**(Modbus Slave)**
www.adfweb.com?Product=HD67166	**(Modbus TCP Master)**
www.adfweb.com?Product=HD67167	**(Modbus TCP Slave)**
www.adfweb.com?Product=HD67168	**(PROFIBUS Master)**
www.adfweb.com?Product=HD67169	**(PROFIBUS Slave)**
www.adfweb.com?Product=HD67613	**(PROFINET)**
www.adfweb.com?Product=HD67693	**(BACnet Slave)**
www.adfweb.com?Product=HD67719	**(BACnet Master)**
www.adfweb.com?Product=HD67726	**(BACnet Master)**
www.adfweb.com?Product=HD67754	**(IEC 61850 Server)**
www.adfweb.com?Product=HD67779	**(IEC 61850 Client)**
www.adfweb.com?Product=HD67820	**(KNX)**
www.adfweb.com?Product=HD67850	**(DALI)**
www.adfweb.com?Product=HD67878	**(IO-Link Master)**
www.adfweb.com?Product=HD67954	**(MQTT)**

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

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UPDATED DOCUMENTATION:

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

- Updated
- Related to the product you own

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

With this "Document Code" go to web page www.adfweb.com/download/ 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	07/01/2020	Ff	All	First Release

WARNING:

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

TRADEMARKS:

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SECURITY ALERT:

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

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

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

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

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

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

EXAMPLE OF CONNECTION:

J1939 / SNMP - Converter
HD67162-A1

ADFweb.com   +39 0438 309 131   +39 349 440 9592   support@adfweb.com

J1939 / SNMP - Converter
HD67162-B2

ADFweb.com   +39 0438 309 131   +39 349 440 9592   support@adfweb.com

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CONNECTION SCHEME:

Dip-Switch A:
-Dip1 – Functioning Mode

= Normal   = Boot

LED1 Device state
LED2 SNMP communication

Lo Shl Hi   +V 0V
CAN port   **Power Supply**
Dip-Switch C   8...24V AC
or
12...35V DC

J1939 / SNMP Agent - Converter
HD67162-A1

www.ADFweb.com

LED3 Ethernet Link

Ethernet   Q.n. - - - -

Dip-Switch A

LED4 J1939 communication   C.S.: B279   MAC:10-64-E2-07-DC-4B
Date Code:29.20   Serial Nr.: G4065   **RoHS**

Rail DIN
Clamp

Led1:
Yellow
Device state

Led2:
Green
SNMP
communication

Led3:
Green
Ethernet Link

Connector5:
Ethernet Port
(RJ45 Plug)

Led4:
Green
J1939
communication

Lo Shl Hi   +V 0V

Dip-Switch C:
-Dip1 – CAN Termination Resistor

= Open   = 120 Ohm

Connector2:
CAN port (Isolated port)

Hi = High wire
Shl = Shield* (to Isolated Ground)
Lo = Low wire

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

Figure 1a: Connection scheme for HD67162-A1

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

Dip-Switch C:
-Dip1 – CAN Termination Resistor
= Open   120 Ohm

Connector2:
CAN port (Isolated port)

Hi = High wire
Shl = Shield* (to Isolated Ground)
Lo = Low wire

Lo Shl Hi

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

MAC: 10-64-E2-08-39-20
Serial Nr.: I7830

ETHERNET

LED
Device state
SNMP comm.
J1939 comm.
Error state

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HD67162-B2
J1939 / SNMP - Converter
Dip-Switch A   Dip-Switch C

J1939 port
Lo Shl Hi

Led1:
Green
Device state

Led2:
Yellow
SNMP communication

Led4:
Yellow
J1939 communication

Led5:
Yellow
Error state

0V +V

Connector5:
Ethernet Port
(RJ45 Plug)

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

Led3:
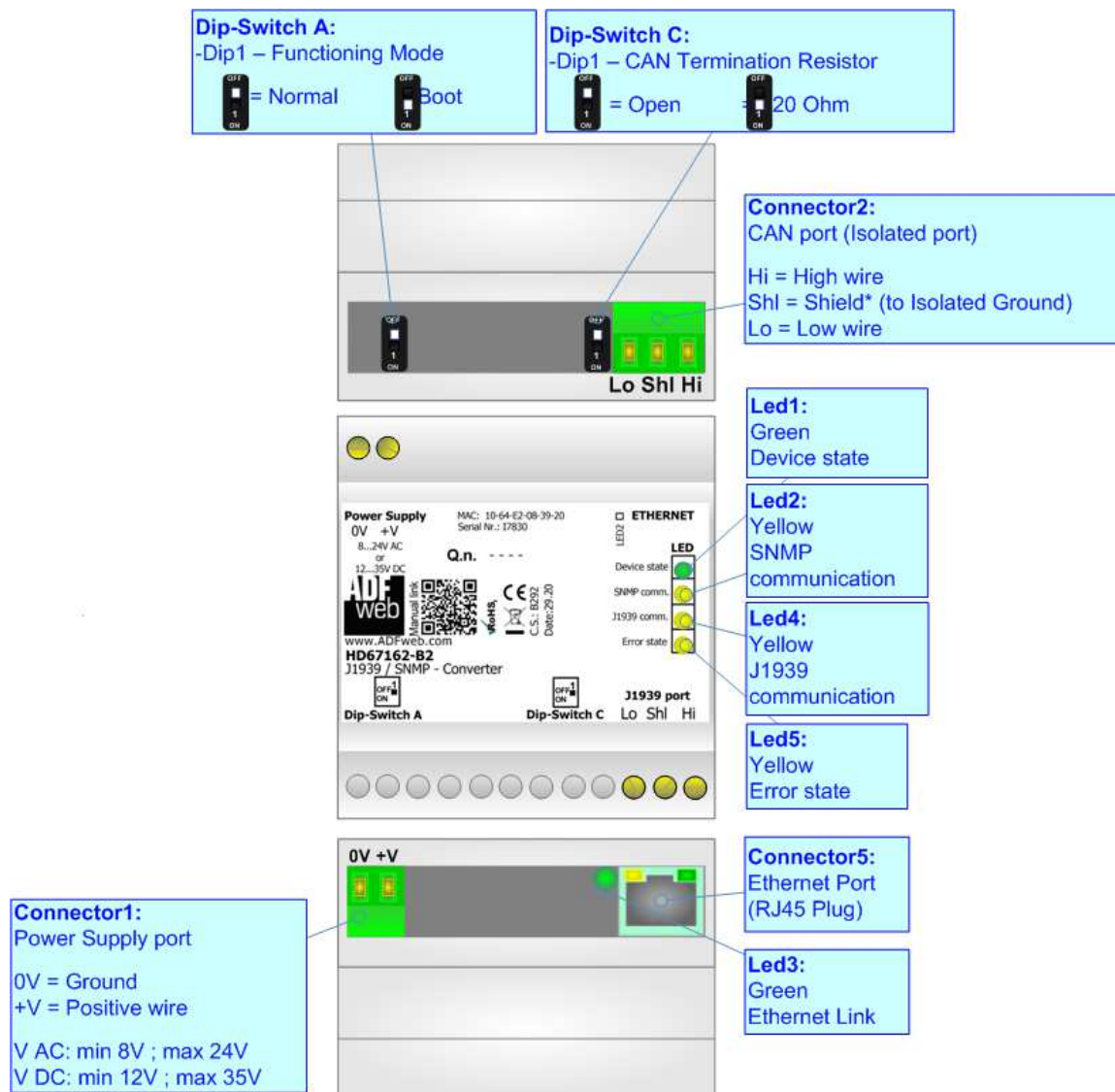Green
Ethernet Link

Figure 1b: Connection scheme for HD67162-B2

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CHARACTERISTICS:

The HD67162-A1 and HD67162-B2 is a J1939 / SNMP - Converter.

It has the following characteristics:

- Up to 1024 bytes in reading and 1024 bytes in writing;
- Triple isolation between J1939 - Power Supply, J1939 - Ethernet, Power Supply - Ethernet.
- Two-directional information between J1939 bus and SNMP 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 SW67162 software on your PC in order to perform the following:

- Define the parameter of SNMP line;
- Define the parameter of J1939 line;
- Define the J1939 frames that the converter can accept;
- Define the J1939 frames that the converter sends trough the J1939 line;
- Define the map of J1939 byte that must be written in the SNMP array;
- Define the map of which SNMP bytes must be written in J1939 frames;
- Update the device.

ADFweb.com Srl – IT31010 – Mareno – Treviso   *INFO:* *www.adfweb.com*   *Phone +39.0438.30.91.31*

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]
HD67162-A1	3.5
HD67162-B2	3.5

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

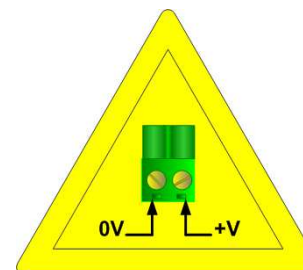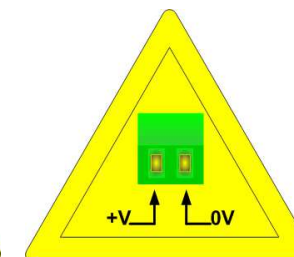V AC: min 8V ; max 24V
V DC: min 12V ; max 35V

0V +V
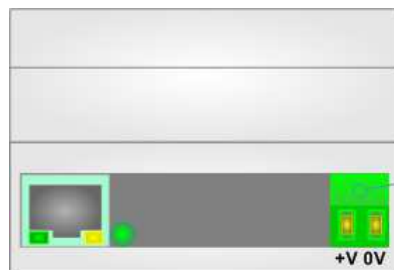
Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

+V 0V

Caution: Not reverse the polarity power

0V +V   +V 0V

HD67162-A1   HD67162-B2

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

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

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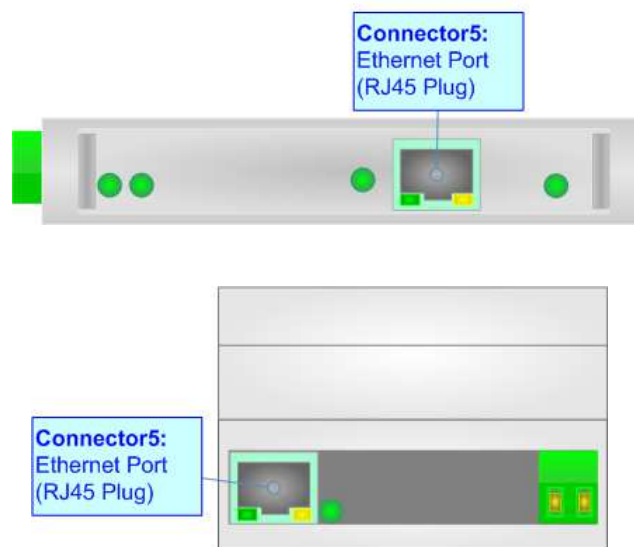
Industrial Electronic Devices
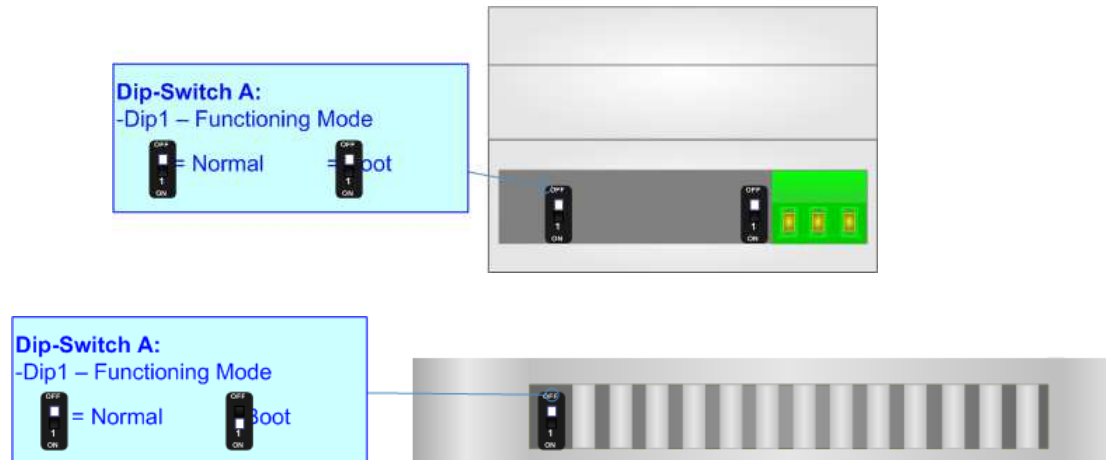
LEDS:

The devices has got four (five for HD67515-B2) 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: SNMP communication	Blinks when SNMP frames are received	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
3: Ethernet Link	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected
4: J1939 communication	Blinks when J1939 frames are received	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
5: Not used (Present only on HD67162-B2)	OFF	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress

Industrial Electronic Devices
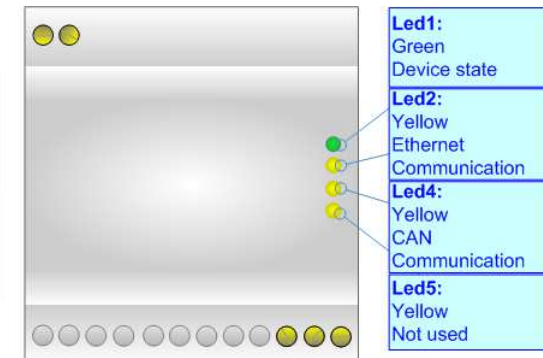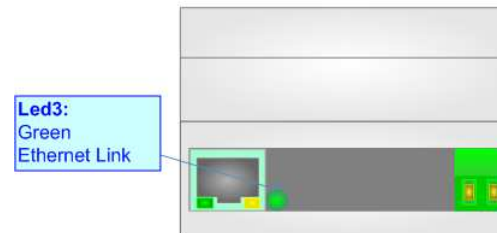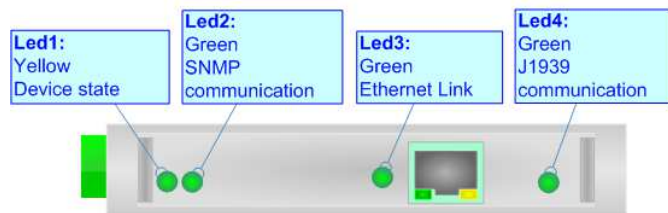
SNMP:

The SNMP connection must be made using Connector5 of HD67162-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/other is recommended the use of a cross cable.

Connector5:
Ethernet Port
(RJ45 Plug)

Connector5:
Ethernet Port
(RJ45 Plug)

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CAN:

For terminate the CAN line with a 120Ω resistor it is necessary that the Dip1 of 'Dip-Switch C' is at ON position.
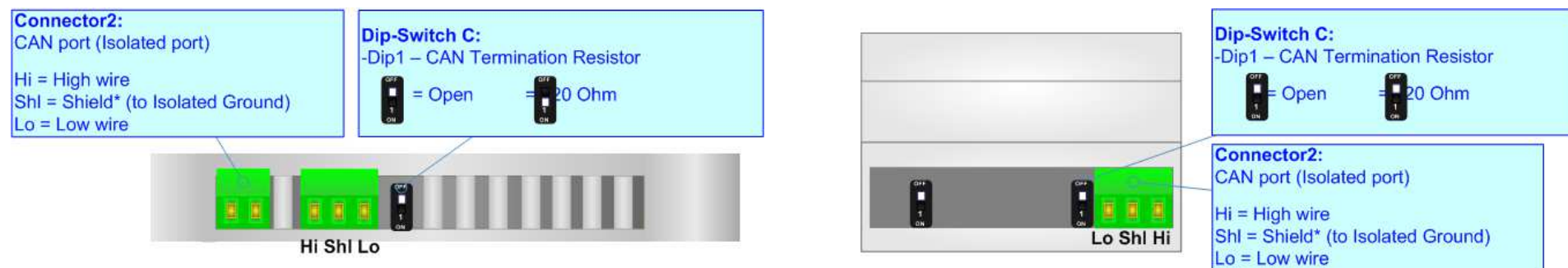
Cable characteristics:

DC parameter:		Impedance	70 Ohm/m

AC parameters:		Impedance	120 Ohm/m
		Delay	5 ns/m

Length		Baud Rate [bps]	Length MAX [m]
		10 K	5000
		20 K	2500
		50 K	1000
		100 K	650
		125 K	500
		250 K	250
		500 K	100
		800 K	50
		1000 K	25

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USE OF COMPOSITOR SW67162:

To configure the Converter, use the available software that runs with Windows called SW67162. 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; 32/64bit).

When launching the SW67162, the window below appears (Fig. 2).
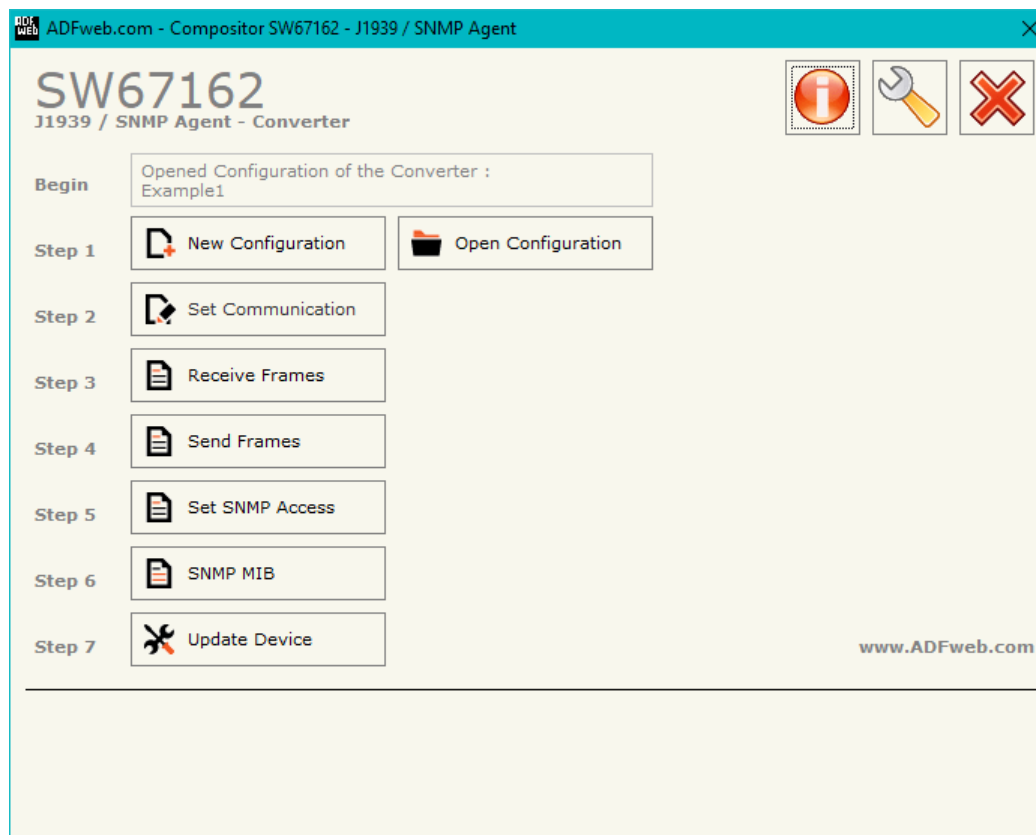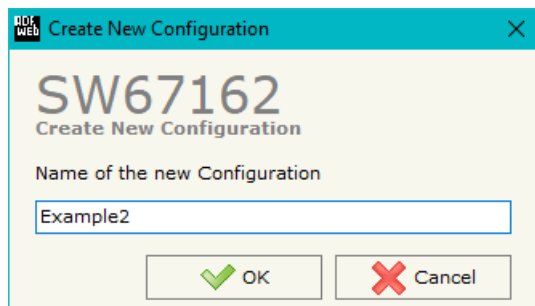
Note:
It is necessary to have installed .Net Framework 4.
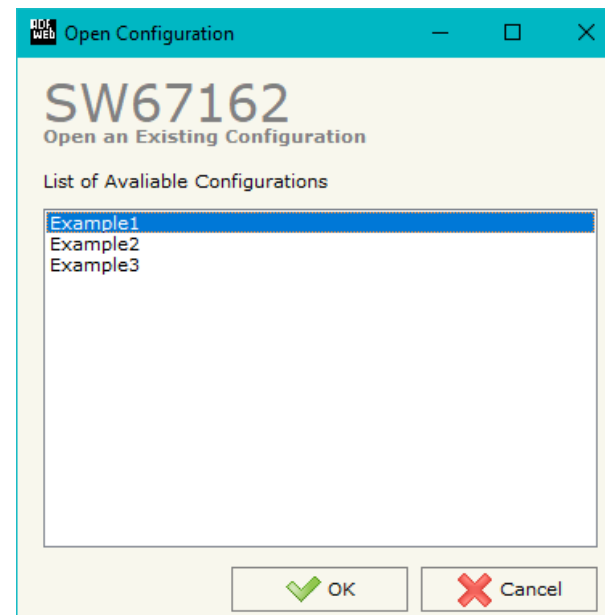

Figure 2: Main window for SW67162

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NEW CONFIGURATION / OPEN CONFIGURATION:

The "**New Configuration**" button creates the folder which contains the entire device's configuration.

SW67162
Create New Configuration

Name of the new Configuration

Example2

✔ OK   ✖ Cancel

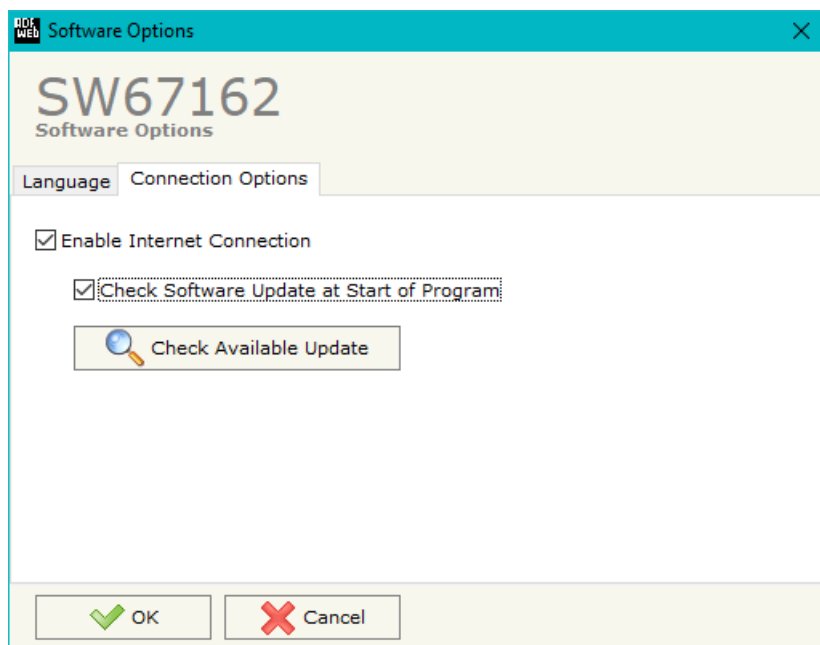A device's configuration can also be imported or exported:

➤ To clone the configurations of a Programmable "J1939 / SNMP - 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**".

SW67162
Open an Existing Configuration

List of Avaliable Configurations

Example1
Example2
Example3

✔ OK   ✖ Cancel

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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.

Software Options   ×

SW67162
Software Options

Language | Connection Options

Selected Language :

🇩🇪 Deutsch

🇬🇧 English

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✔ OK   ✖ Cancel

Software Options   ×

SW67162
Software Options

Language | Connection Options

☑ Enable Internet Connection

☑ Check Software Update at Start of Program

🔍 Check Available Update

✔ OK   ✖ Cancel

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 SW67162 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, SNMP and J1939.

By Pressing the "**Set Communication**" button from the main window for SW67162 (Fig. 2) the window "Set Communication" appears (Fig. 3).
The window is divided in two sections, one for the SNMP and the other for the J1939.

The means of the fields for "SNMP" are:

- In the fields "**IP ADDRESS**" the IP address of the converter is defined;
- In the fields "**SUBNET Mask**" the SubNet Mask of the converter is defined;
- In the fields "**GATEWAY**" the default gateway of the network is defined. 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 "**SNMP Name of Station**" the name for SNMP Agent station is defined;
- In the field "**Contact**" the contact for SNMP Agent station is defined;
- In the field "**Location**" the location for SNMP Agent station is defined.
- In the field "**Version**" the version of SNMP is defined;
- If SNMP V3 is used, the following fields must be filled:
  - o In the field "**User**" the user for the SNMP authentication is defined;
  - o In the field "**Security Level**" the type of security used is defined;
  - o In the field "**Authority**" the password for the SNMP authentication is defined;
  - o In the field "**Authority Mode**" the mode used for the authentication is defined;
  - o In the field "**Privacy**" the password for Privacy authentication is defined;
  - o In the field "**Privacy Mode**" the mode used for Privacy is defined.

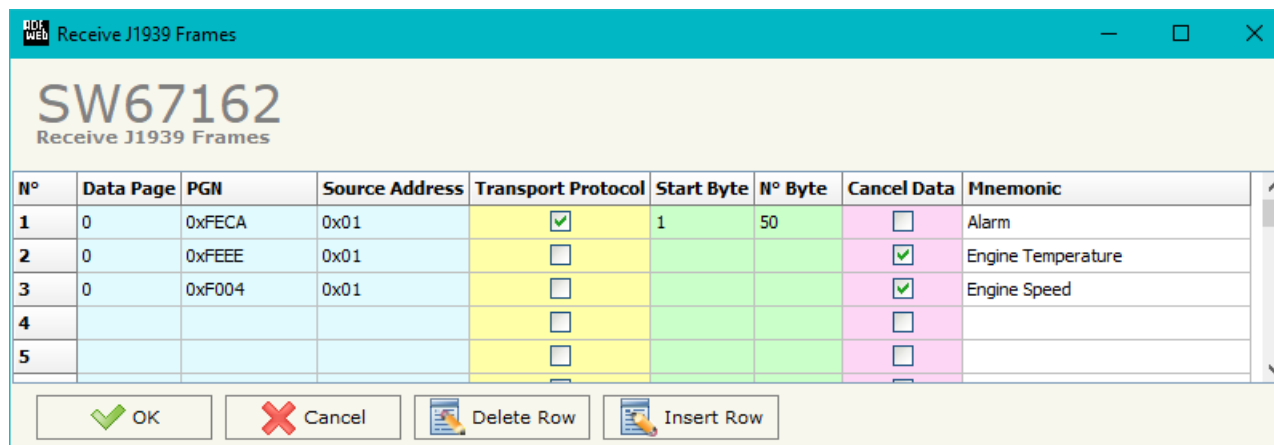*Figure 3: "Set Communication" window*

The means of the fields for "J1939" are:

- In the field "**Baudrate**" the data rate of J1939 is defined;
- In the field "**TimeOut Data**" a time is defined. When a J1939 message is not received in this time, the data on SNMP side are set to 0xFF;
- If the field "**Enable Peer to Peer**" is checked, the gateway will mask the Source Address of the J1939 messages received.
- In the field "**Device ID**" the ID of J1939 side of the converter is defined;
- If the field "**Enable Not Standard Cancel Data**" is checked, the default value after the TimeOut Data will be the one defined on the right.

RECEIVE FRAMES:

By pressing the "**Receive Frames**" button from the main window for SW67162 (Fig. 2) the "Receive J1939 Frames" window appears (Fig. 4).
The COB inserted in this table contains the Output data of SNMP. These frames are accepted by the Converter.

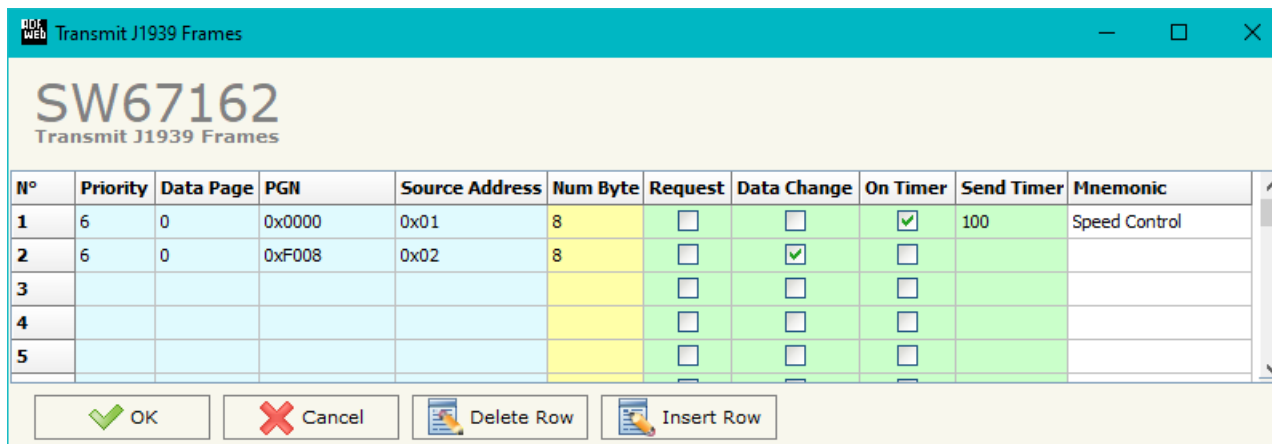| N°	Data Page	PGN	Source Address	Transport Protocol	Start Byte	N° Byte	Cancel Data	Mnemonic
1	0	0xFECA	0x01	☑	1	50	☐	Alarm
2	0	0xFEEE	0x01	☐			☑	Engine Temperature
3	0	0xF004	0x01	☐			☑	Engine Speed
4				☐			☐	
5				☐			☐	

Figure 4: "Receive J1939 Frames" window

The data of the columns have the following meanings:

- In the field "**Data Page**" the Data Page is defined, the value can be 0 or 1 (usually it is 0);
- In the field "**PGN**" the PGN of the data of J1939 message is defined (it is an identifier);
- In the field "**Source Address**" the address of the device that sends the frame is defined;
- If the field "**Transport Protocol**" is checked, the frame use transport protocol functions (used to send more than 8 bytes);
- In the field "**Start Byte**" the start byte of the J1939 message to map into the SNMP array is defined;
- In the field "**N° Byte**" the number of bytes to save is defined;
- If the field "**Cancel Data**" is checked, the data in the frame will be erased after the expiration of the "**TimeOut Data**" defined in "Set Communication" section;
- In the field "**Mnemonic**" a brief description is defined.

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SEND FRAMES:

By pressing the "**Send Frames**" button from the main window for SW67162 (Fig. 2) the "Send J1939 frames" window appears (Fig. 5).
The COB inserted in this table contains the Input data of SNMP. These frames are sent by the Converter.

N°	Priority	Data Page	PGN	Source Address	Num Byte	Request	Data Change	On Timer	Send Timer	Mnemonic
1	6	0	0x0000	0x01	8	☐	☐	☑	100	Speed Control
2	6	0	0xF008	0x02	8	☐	☑	☐		
3						☐	☐	☐		
4						☐	☐	☐		
5						☐	☐	☐		

Figure 5: "Send J1939 Frames" window

The data of the columns have the following meanings:

- In the field "**Priority**" the priority of the J1939 message is defined. In J1939 protocol, it is a number among 0,1,2,3,4,5,6,7. The number "0" is the highest priority and "7" is the lowest;
- In the field "**Data Page**" the Data Page is defined, the value can be 0 or 1 (usually it is 0);
- In the field "**PGN**" the PGN of J1939 message is defined (it is an identifier);
- In the field "**Source Address**" the source address to use to send the frame is defined;
- In the field "**N Bytes**" the number of byte of the frame is defined;
- If the field "**Request**" is checked, the J1939 message is sent when a J1939 request is received;
- If the field "**Data Change**" is checked, the J1939 frame is sent when the data from SNMP change;
- If the field "**On Timer**" is checked, the J1939 message is sent cyclically with the delay defined in the field "**Send Timer**";
- In the field "**Mnemonic**" a brief description is defined.

SET SNMP ACCESS:

By pressing the "**Set SNMP Access**" button from the main window for SW67162 (Fig. 2) the "Set SNMP Trap Access" window appears (Fig. 6). In this section, it is possible to create the OIDs for SNMP side to read or write using GET and SET commands or to be sent as TRAP messages. The window is divided into two tables, one for SNMP readings and one for SNMP writings.

The data of the columns in the "SNMP Read" have the following meanings:

Figure 6a: "Set SNMP Access -> SNMP Read" window

+ If the field "**Enable**" is checked, the SNMP OID is enabled;

+ In the field "**Community Name**" the name of the Community is defined;

+ In the field "**Type**" the type of data of the OID is defined (Octet String or Integer);

+ If the field "**On Change**" is checked, the OID is sent as Trap when the data from J1939 side change;

+ If the field "**On CMD**" is checked, the OID is sent as Trap when a new J1939 message is received;

+ If the field "**On Timer**" is checked, the OID is sent as Trap cyclically;

+ In the field "**Time (ms)**" the delay time for the Trap send is defined (if "On Timer" option is checked);

+ In the field "**Position**" the starting byte of the internal memory array where taking the data is defined;

+ In the field "**Start Bit**" the starting bit of the selected Position is defined;

+ In the field "**Num Bits/Bytes**" the dimension of the OID is defined. For 'Int' type the dimension is in bit, for 'String' type the dimension is in bytes;

+ In the field "**Description**" the description/name of the OID is defined;

+ In the field "**IP Address**" the IP Address of the SNMP device where addressing the Trap message is defined. This field is used only when 'On Change' or 'On CMD' or 'On Timer' option is checked;

+ In the field "**Mnemonic**" a brief description of the OID is defined.

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The data of the columns in the "SNMP Write" have the following meanings:

+ If the field "**Enable**" is checked, the SNMP OID is enabled;

+ In the field "**Community Name**" the name of the Community is defined;

+ In the field "**Type**" the type of data of the OID is defined (Octet String or Integer);

Figure 6b: "Set SNMP Access -> SNMP Write" window

+ In the field "**Position**" the starting byte of the internal memory array where mapping the data is defined;

+ In the field "**Start Bit**" the starting bit of the selected Position is defined;

+ In the field "**Num Bits/Bytes**" the dimension of the OID is defined. For 'Int' type the dimension is in bit, for 'String' type the dimension is in bytes;

+ In the field "**Description**" the description/name of the OID is defined;

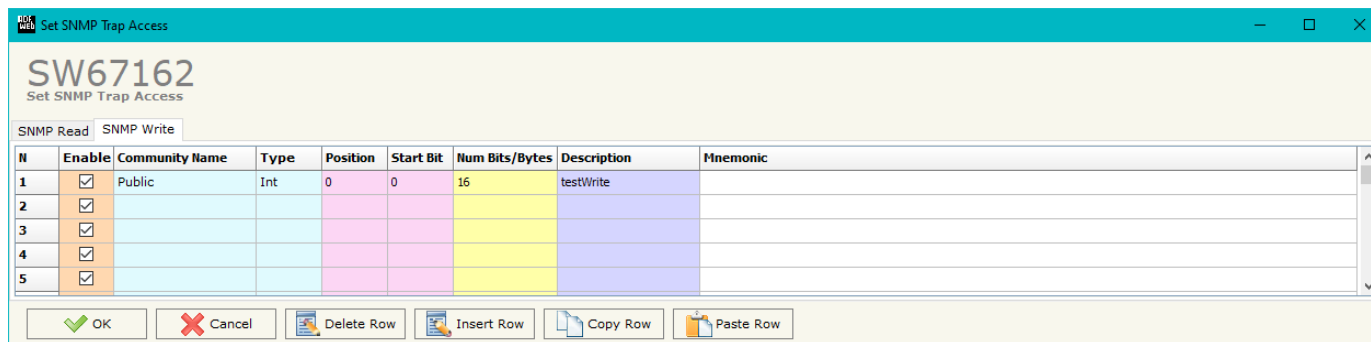+ In the field "**Mnemonic**" a brief description of the OID is defined.

Note:
    If the fields "On Change", "On CMD" and "On Timer" are disabled, the OID is readable using standard GET command. If one of these fields is enabled, the OID is sent as Trap and it is readable by GET command too.

Note:
    The field "Description" must start with lowercase letter and it cannot contain special chars (just letters and numbers). All the "Description" fields must be different between them.

SNMP MIB:

By pressing the "**SNMP MIB**" button it is possible to save the MIB file for the SNMP Manager.

UPDATE DEVICE:

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

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

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

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.

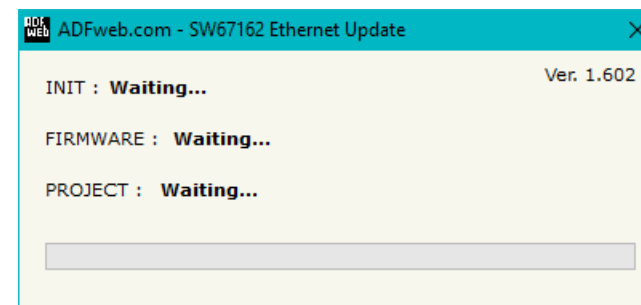At this point the configuration/firmware on the device is correctly update.

Figure 7: "Update device" windows

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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 HD67162-A1/B2 device.

Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67162-A1/B2 device.

Warning:

If Fig. 8 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 or 10 make sure that you have the administrator privileges;
- In case you have to program more than one device, using the "UDP Update", you have to cancel the ARP table every time you connect a new device on Ethernet. For do this you have to launch the "Command Prompt" and write the command "arp -d". Pay attention that with Windows Vista, Seven, 8 or 10 you have to launch the "Command Prompt" with Administrator Rights;
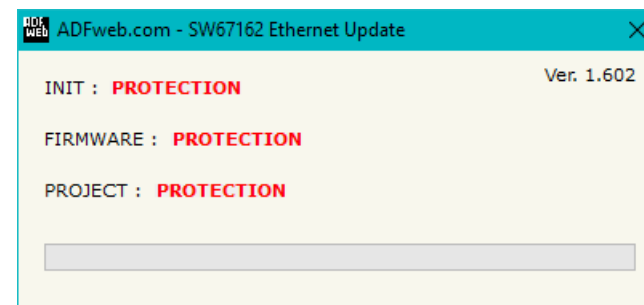- Pay attention at Firewall lock.

Figure 8: "Protection" window

In the case of HD67162-A1/B2 you have to use the software "SW67162": www.adfweb.com\download\filefold\SW67162.zip.


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SNMP COMMUNICATION

In order to read/write the data from/to J1939 side, it is necessary to use specific SNMP commands in order to see the SNMP Input and write the SNMP Output.

Reading J1939 data from SNMP:

In order to read the data from the HD67162-A1/B2, it is necessary to use the GET command.
Each OID defined in the section "Set SNMP Access -> SNMP Read" will be placed in the MIB tree of the converter.

In addition, it will be possible to read the entire internal map of the converter in memory blocks of 128 bytes: this feature is helpful in phase of configuration of the converter.

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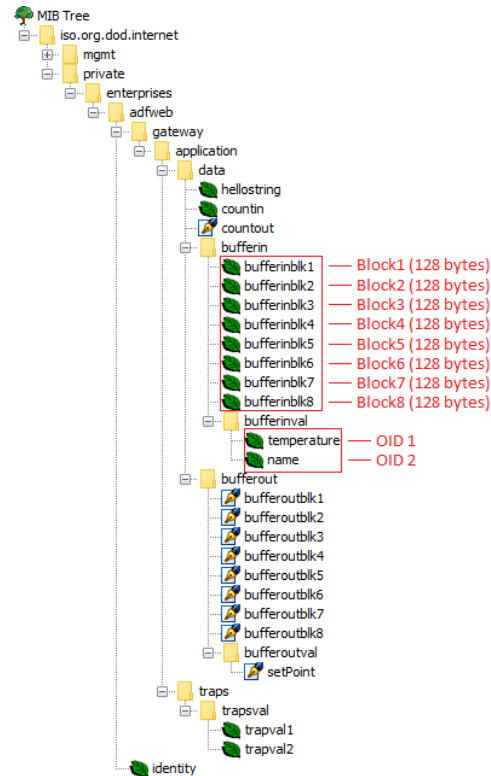
Each SNMP variable created will have its own OID and it will be created following this rule:

- OID 1 (first row of "Set SNMP Access -> SNMP Read" table): .1.3.6.1.4.1.49314.1.1.1.4.9.**1**
- OID 2 (second row of "Set SNMP Access -> SNMP Read" table): .1.3.6.1.4.1.49314.1.1.1.4.9.**2**
- OID X (Xth row of "Set SNMP Access -> SNMP Read" table): .1.3.6.1.4.1.49314.1.1.1.4.9.**X**
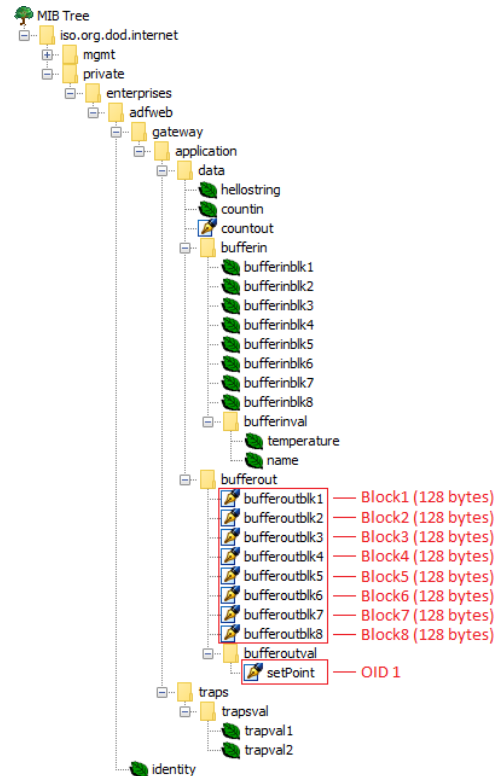
The memory blocks are accessible with these OIDs:

- Block1: .1.3.6.1.4.1.49314.1.1.1.4.1.0
- Block2: .1.3.6.1.4.1.49314.1.1.1.4.2.0
- Block3: .1.3.6.1.4.1.49314.1.1.1.4.3.0
- Block4: .1.3.6.1.4.1.49314.1.1.1.4.4.0
- Block5: .1.3.6.1.4.1.49314.1.1.1.4.5.0
- Block6: .1.3.6.1.4.1.49314.1.1.1.4.6.0
- Block7: .1.3.6.1.4.1.49314.1.1.1.4.7.0
- Block8: .1.3.6.1.4.1.49314.1.1.1.4.8.0

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Writing J1939 data from SNMP:

In order to write the data from the HD67162-A1/B2, it is necessary to use the SET command.
Each OID defined in the section "Set SNMP Access -> SNMP Write" will be placed in the MIB tree of the converter.

In addition, it will be possible to write the entire internal map of the converter in memory blocks of 128 bytes: this feature is helpful in phase of configuration of the converter.

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Each SNMP variable created will have its own OID and it will be created following this rule:

- OID 1 (first row of "Set SNMP Access -> SNMP Write" table): .1.3.6.1.4.1.49314.1.1.1.5.9.**1**
- OID 2 (second row of "Set SNMP Access -> SNMP Write" table): .1.3.6.1.4.1.49314.1.1.1.5.9.**2**
- OID X (Xth row of "Set SNMP Access -> SNMP Write" table): .1.3.6.1.4.1.49314.1.1.1.5.9.**X**

The memory blocks are accessible with these OIDs:

- Block1: .1.3.6.1.4.1.49314.1.1.1.5.1.0
- Block2: .1.3.6.1.4.1.49314.1.1.1.5.2.0
- Block3: .1.3.6.1.4.1.49314.1.1.1.5.3.0
- Block4: .1.3.6.1.4.1.49314.1.1.1.5.4.0
- Block5: .1.3.6.1.4.1.49314.1.1.1.5.5.0
- Block6: .1.3.6.1.4.1.49314.1.1.1.5.6.0
- Block7: .1.3.6.1.4.1.49314.1.1.1.5.7.0
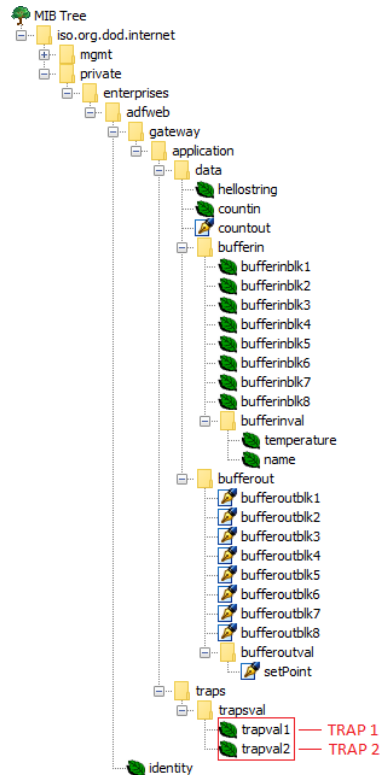- Block8: .1.3.6.1.4.1.49314.1.1.1.5.8.0

Note:
    The OIDs in writing are readable too with GET command.

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TRAP messages from SNMP:

All the OIDs defined in the "Set SNMP Access -> SNMP Read" table can be sent as TRAP messages too.

The TRAP messages are contained in the MIB tree and they have these OIDs:

- TRAP 1 (first row of "Set SNMP Access -> SNMP Read" table): .1.3.6.1.4.1.49314.1.1.2.1.**1**
- TRAP 2 (second row of "Set SNMP Access -> SNMP Read" table): .1.3.6.1.4.1.49314.1.1.2.1.**2**
- TRAP X (Xth row of "Set SNMP Access -> SNMP Read" table): .1.3.6.1.4.1.49314.1.1.2.1.**X**
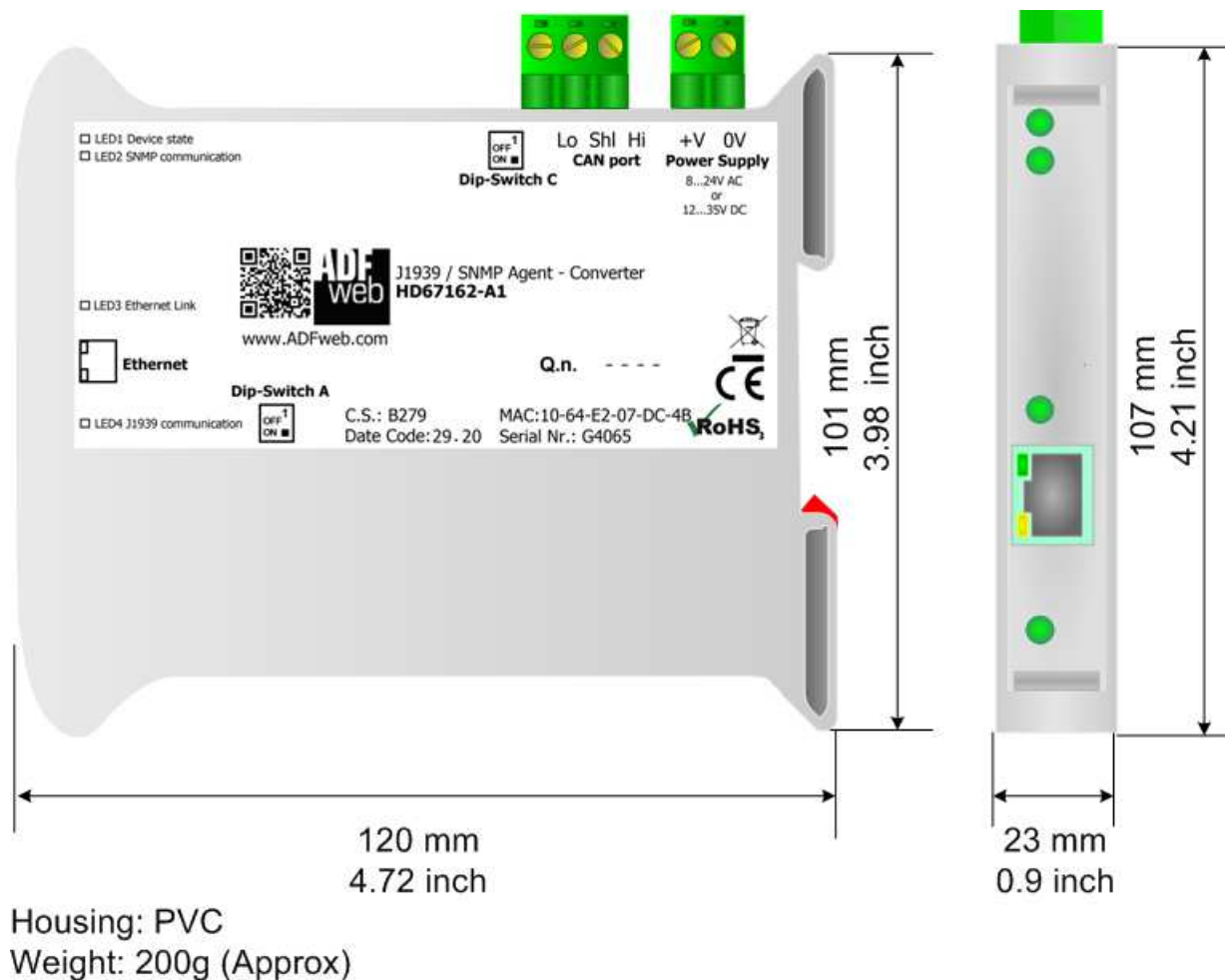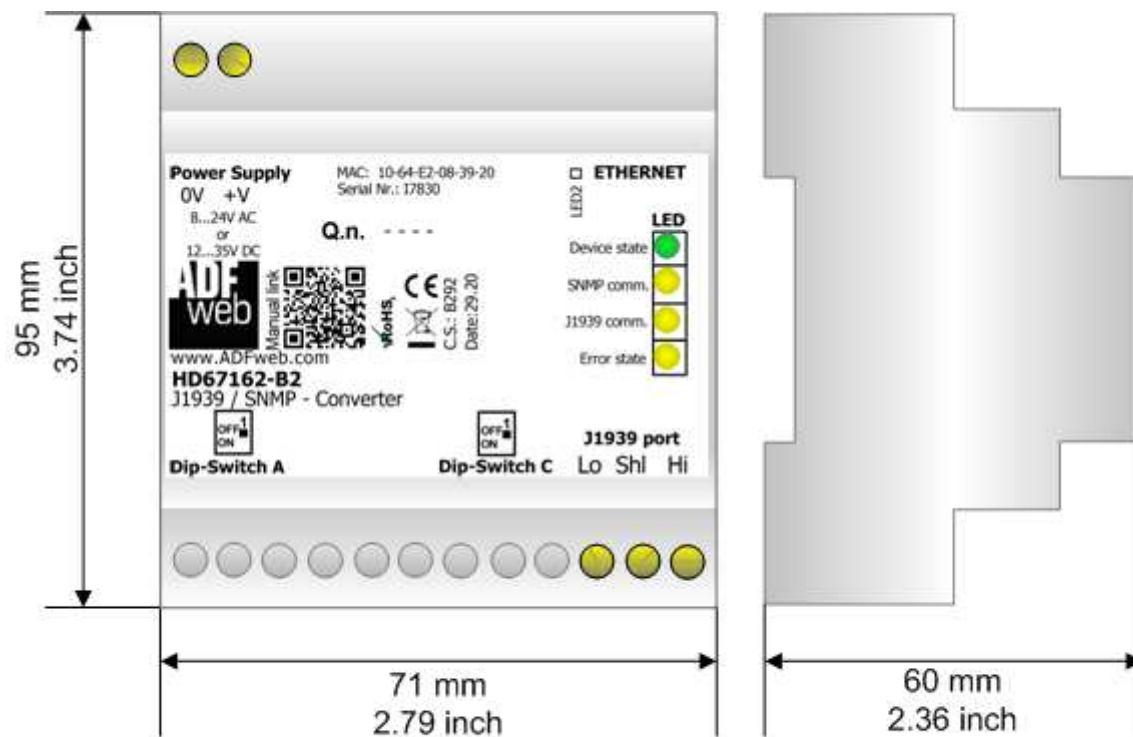
MECHANICAL DIMENSIONS:

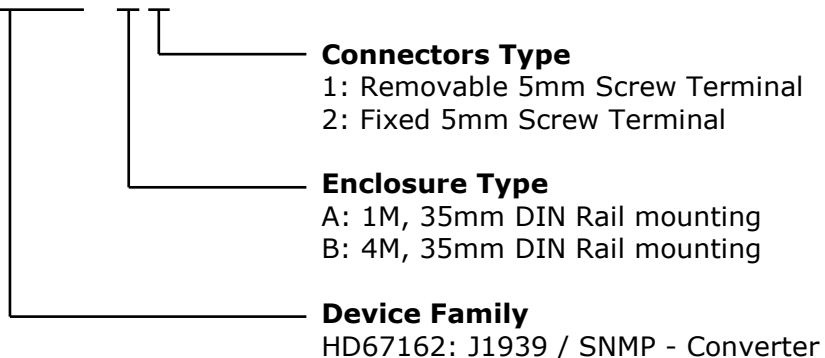*Figure 9a: Mechanical dimensions scheme for HD67162-A1*

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Figure 9b: Mechanical dimensions scheme for HD67162-B2

ORDERING INFORMATIONS:

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

HD67162 – 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

Device Family
HD67162: J1939 / SNMP - Converter

Order Code: **HD67162-A1**   -   J1939 / SNMP – Converter (Housing type: A, Terminal Blocks Connectors)
Order Code: **HD67162-B2**   -   J1939 / SNMP – Converter (Housing type: B, Terminal Blocks Connectors)

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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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.

ADF web

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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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