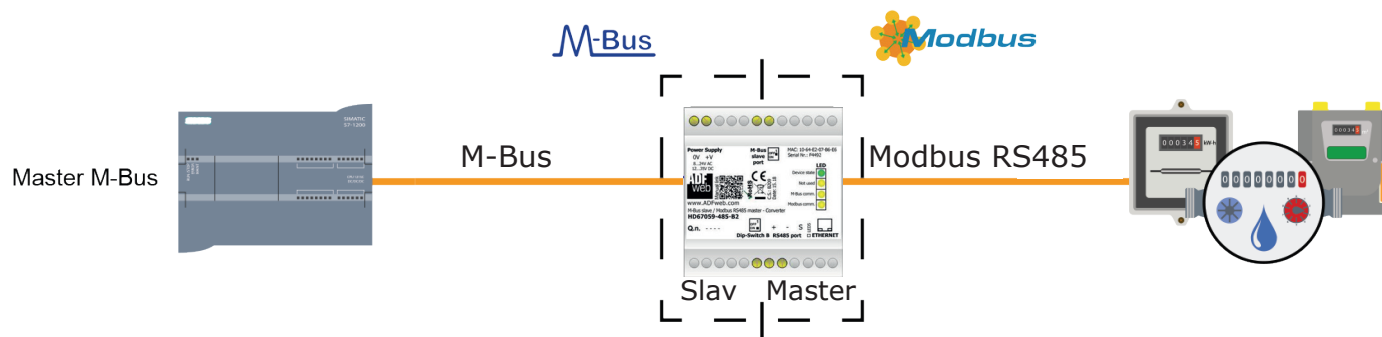




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HD67059-B2-485 20-40-80-160-250 Modbus slavar



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INDEX:

	Page
INDEX	2
UPDATED DOCUMENTATION	2
REVISION LIST	2
WARNING	2
TRADEMARKS	2
SECURITY ALERT	3
EXAMPLE OF CONNECTION	4
CONNECTION SCHEME	5
CHARACTERISTICS	7
CONFIGURATION	7
POWER SUPPLY	8
FUNCTION MODES	9
LEDS	10
RS232	11
RS485	12
M-BUS	13
ETHERNET	13
USE OF COMPOSITOR SW67059	14
NEW CONFIGURATION / OPEN CONFIGURATION	15
SOFTWARE OPTIONS	16
SET COMMUNICATION	18
M-BUS	21
UPDATE DEVICE	27
MECHANICAL DIMENSIONS	30
ORDERING INFORMATION	31
ACCESSORIES	31
DISCLAIMER	32
OTHER REGULATIONS AND STANDARDS	32
WARRANTIES AND TECHNICAL SUPPORT	33
RETURN POLICY	33

REVISION LIST:

Revision	Date	Author	Chapter	Description
1.002	08/04/2011	Fl	All	Revision
1.010	05/10/2011	Fl	All	Software changed (v1.100)
1.011	18/02/2013	Nt	All	Added new chapters
2.000	15/12/2017	Ff	All	New hardware version

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:

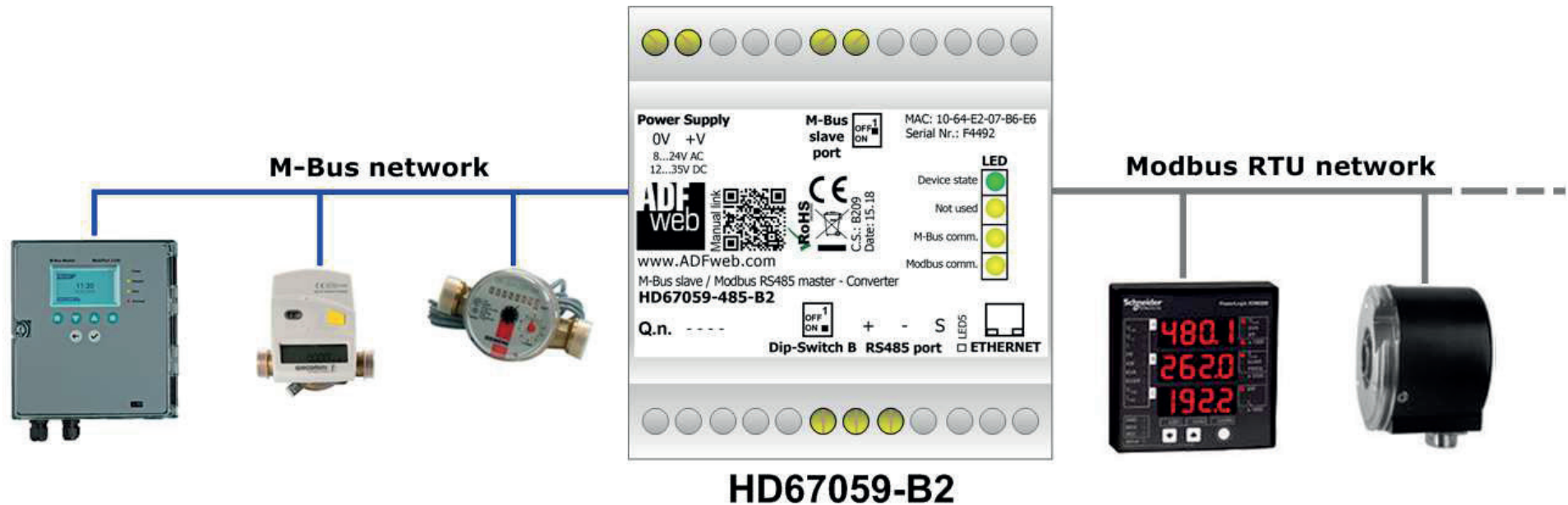


This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

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EXAMPLE OF CONNECTION:



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CONNECTION SCHEME:

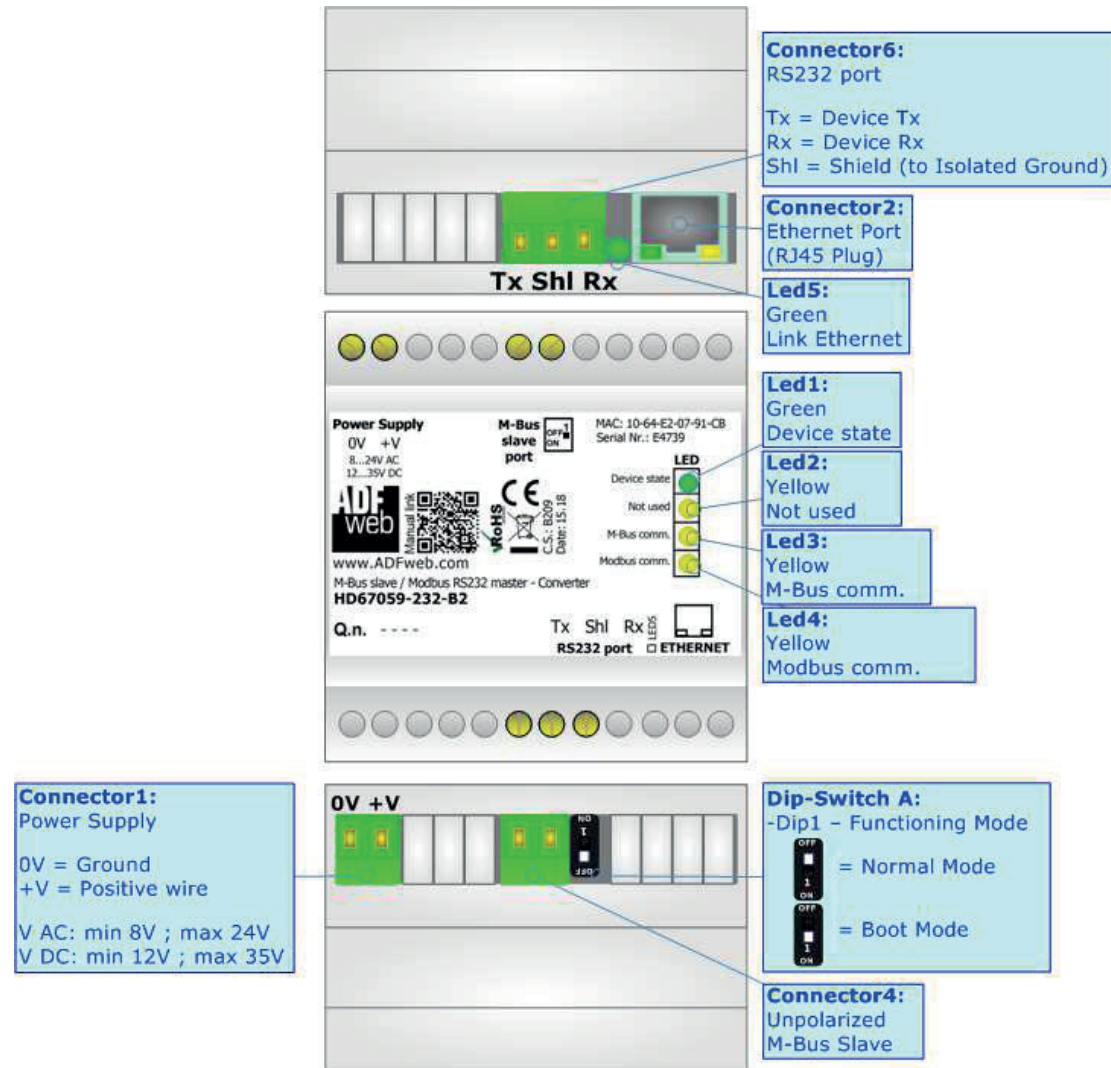


Figure 1a: Connection scheme for HD67059-232-B2

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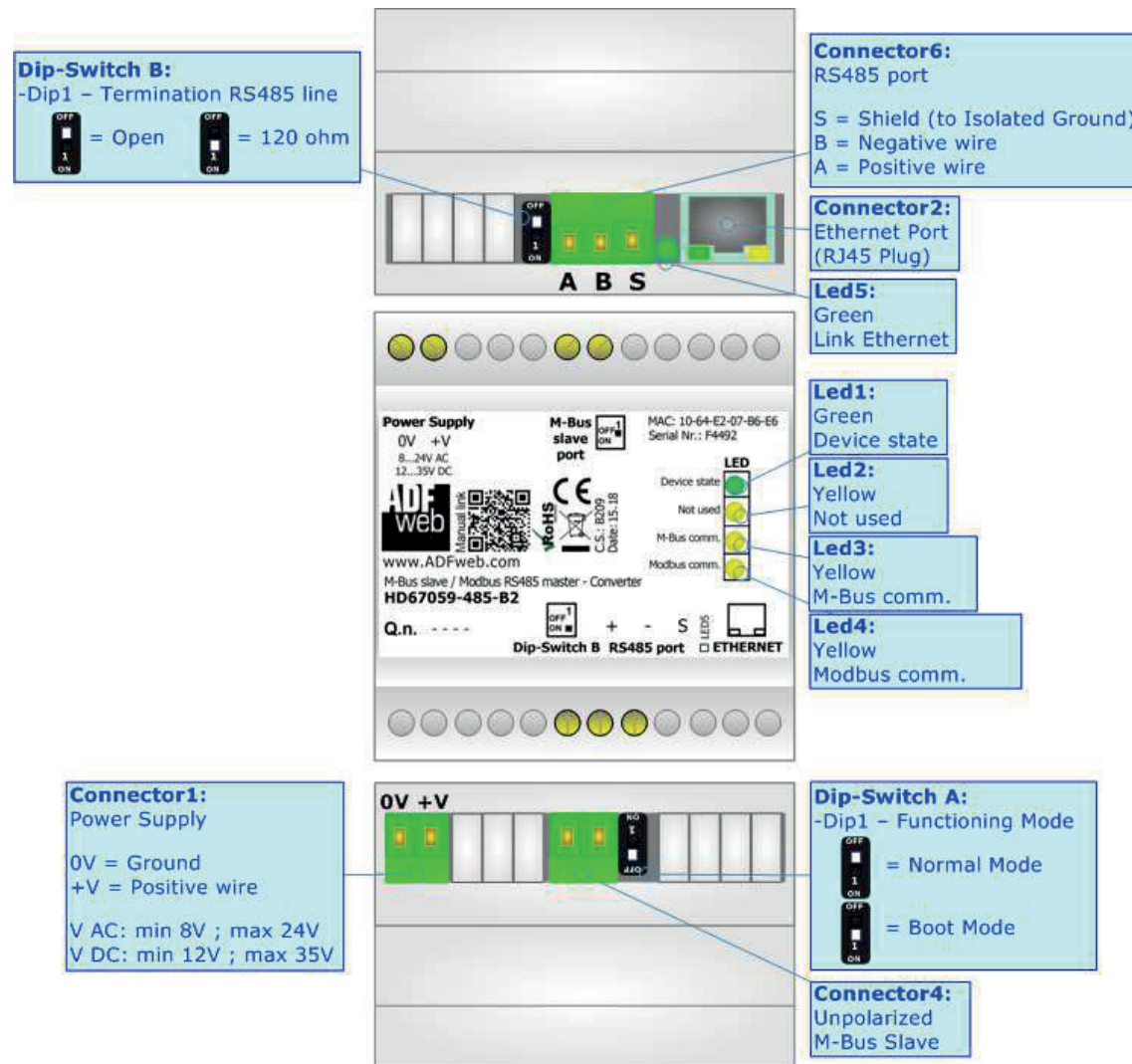


Figure 1b: Connection scheme for HD67059-485-B2

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CHARACTERISTICS:

The HD67059 is a M-Bus slave to Modbus master converter.

It allows the following characteristics:

- Electrical isolation between RS232/RS485 - M-Bus – Power Supply;
- Baud Rate and Parity changeable with software;
- 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 SW67059 software on your PC in order to perform the following:

- Define the parameter of Modbus and M-Bus line;
- Define the map between M-Bus and Modbus sides;
- Update the device.

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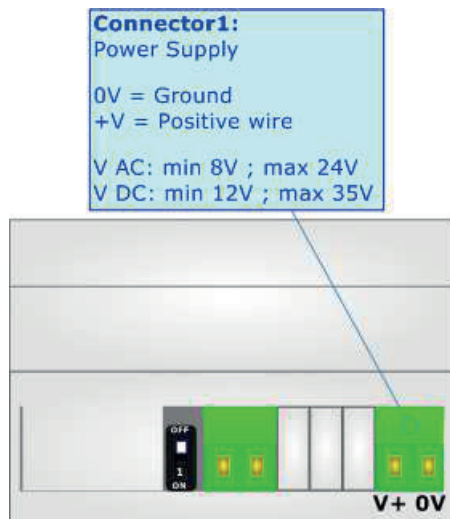
POWER SUPPLY:

The devices can be powered at 8...24V AC and 12...35V DC. The consumption depends to the code of the device. For more details see the two tables below.

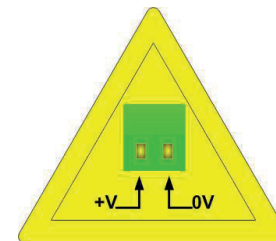
VAC 		VDC 	
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

Consumption at 24V DC:

Device	[W/VA]
HD67059-232-B2	4
HD67059-485-B2	



Warning: Not reverse the polarity power



HD67059

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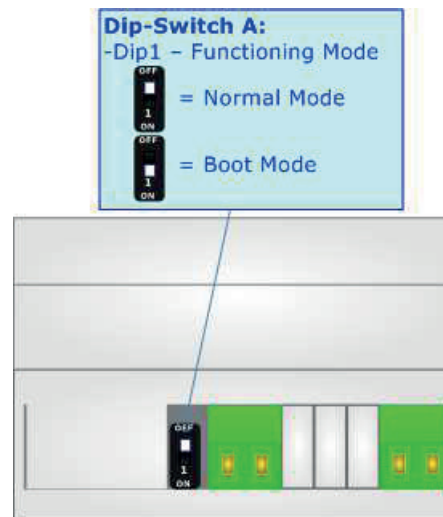
FUNCTION MODES:

The device has got two functions mode depending of the position of Dip1 of 'Dip-Switch A' of HD67059-xxx-B2:

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

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

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



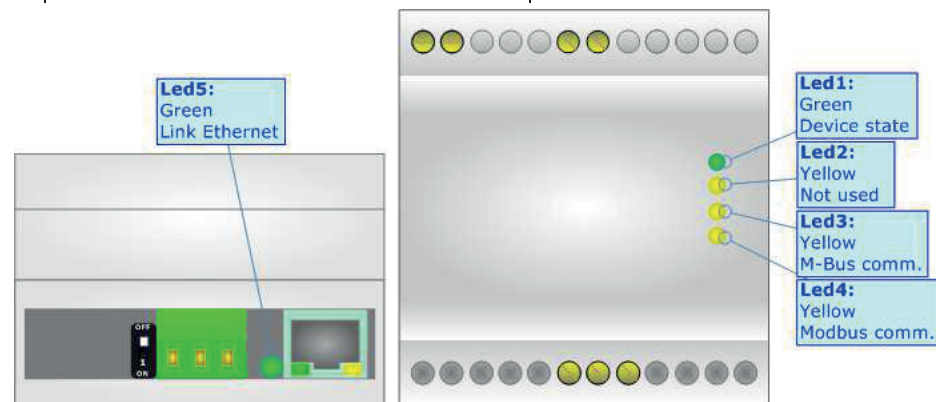
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LEDs:

The device has got 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 (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
2: Not used (yellow)	OFF	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: M-Bus Comm. (yellow)	Blinks when a M-Bus request is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Modbus comm. (yellow)	Blinks when a Modbus response is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Ethernet Link (green)	ON: Ethernet cable connected OFF: Ethernet cable disconnected	ON: Ethernet cable connected OFF: Ethernet cable disconnected

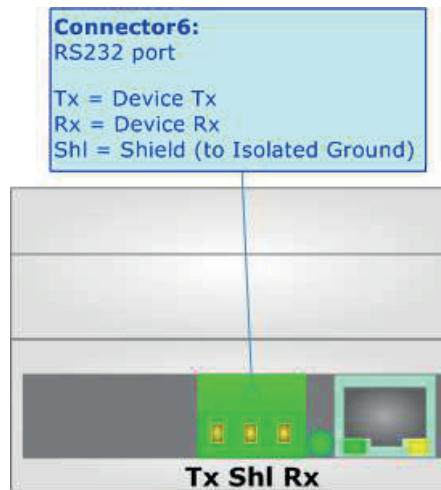


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RS232:

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

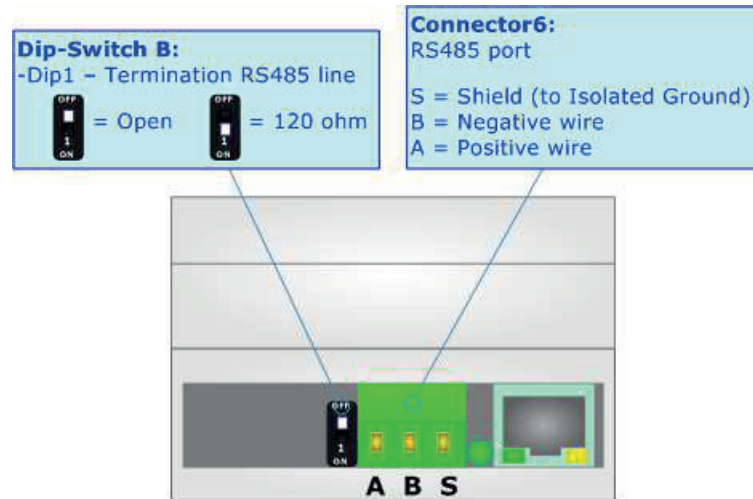


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RS485:

To terminate the RS485 line with a 120Ω resistor, it is necessary to put dip 1 ON, like in figure.



The maximum length of the cable should be 1200m (4000 feet).

Here some codes of cables:

- Belden: p/n 8132 - 2x 28AWG stranded twisted pairs conductor + foil shield + braid shield;
- Belden p/n 82842 - 2x 24AWG stranded twisted pairs conductor + foil shield + braid shield;
- Tasker: p/n C521 - 1x 24AWG twisted pair conductor + foil shield + braid shield;
- Tasker: p/n C522 - 2x 24AWG twisted pairs conductor + foil shield + braid shield.

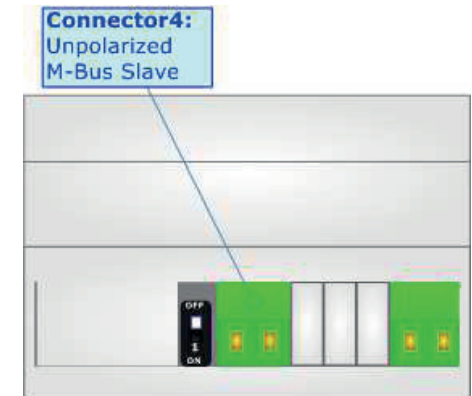
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M-BUS:

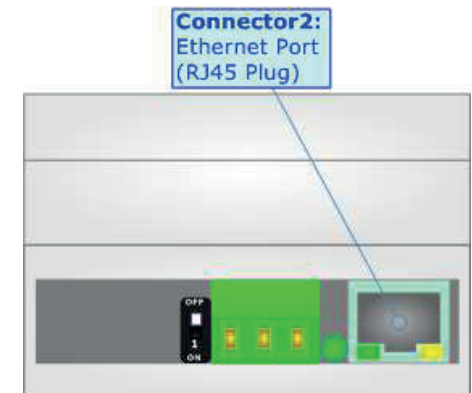
The M-Bus is a unpolarized bus.

A two wire standard telephone cable (JYStY N*2*0.8 mm) is used as the transmission medium for the M-Bus.



ETHERNET:

The Ethernet connection must be made using Connector3 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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USE OF COMPOSITOR SW67059:

To configure the Converter, use the available software that runs with Windows called SW67059. 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 the web site*). The software works with MSWindows (XP, Vista, Seven, 8, 10; 32/64bit).

When launching the SW67059, the window below appears (Fig. 2).



Note:

It is necessary to have installed .Net Framework 4.

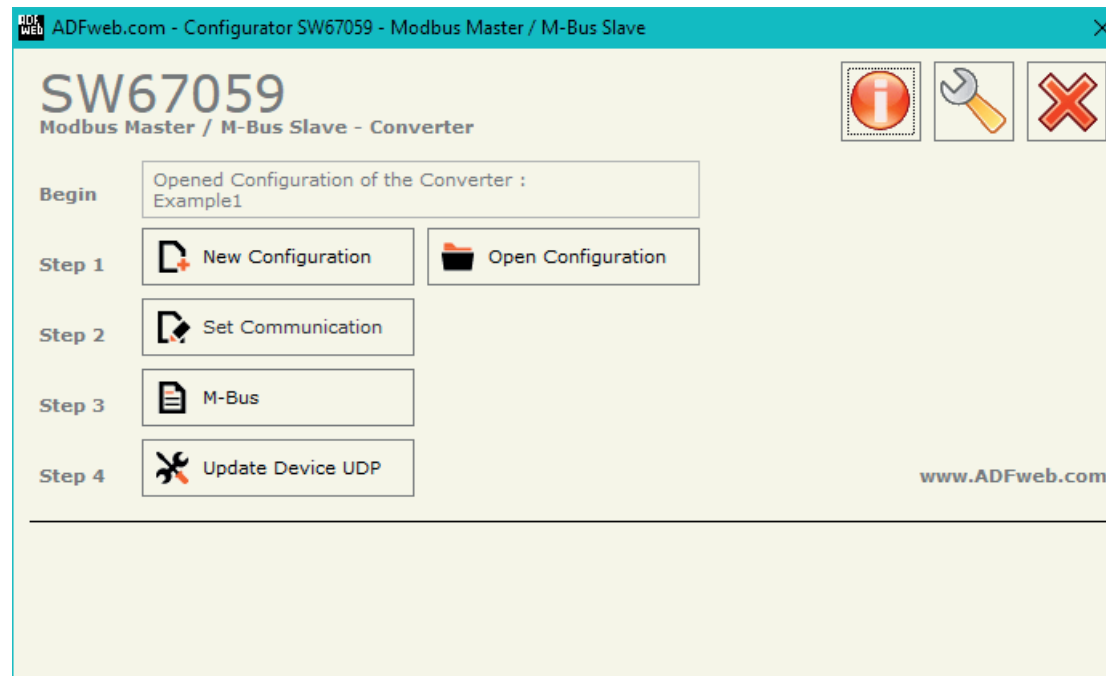


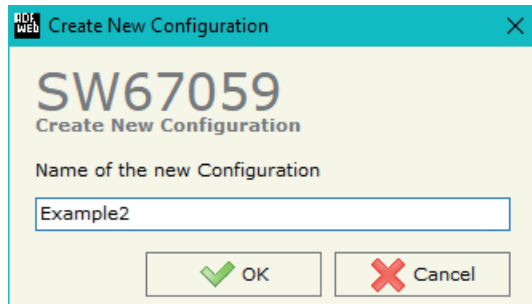
Figure 2: Main window for SW67059

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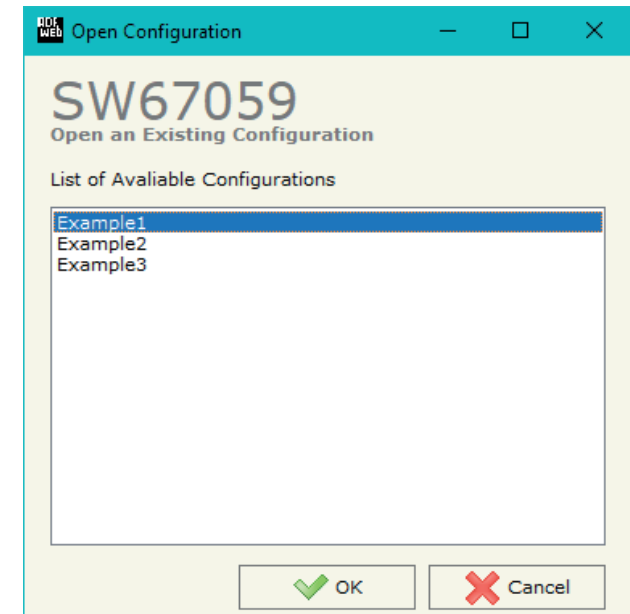
NEW CONFIGURATION / OPEN CONFIGURATION:

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 “M-Bus Slave / Modbus Master - 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**”.



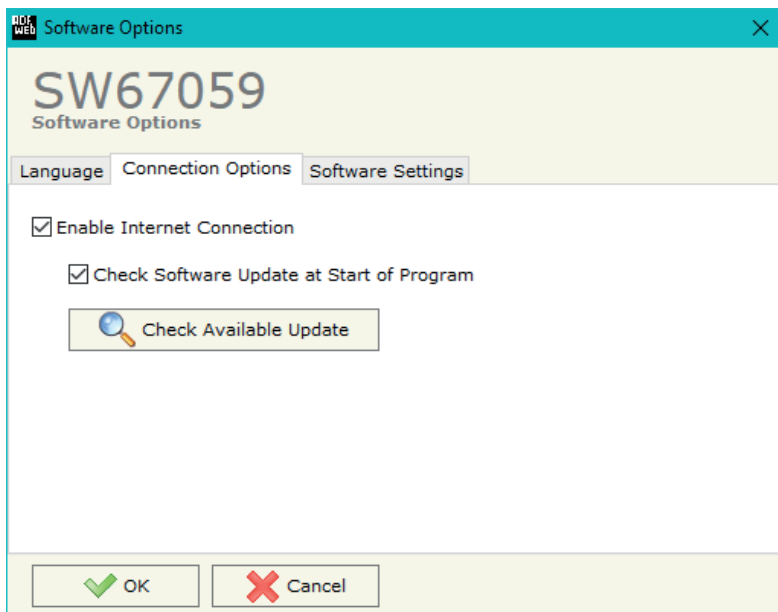
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SOFTWARE OPTIONS:

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

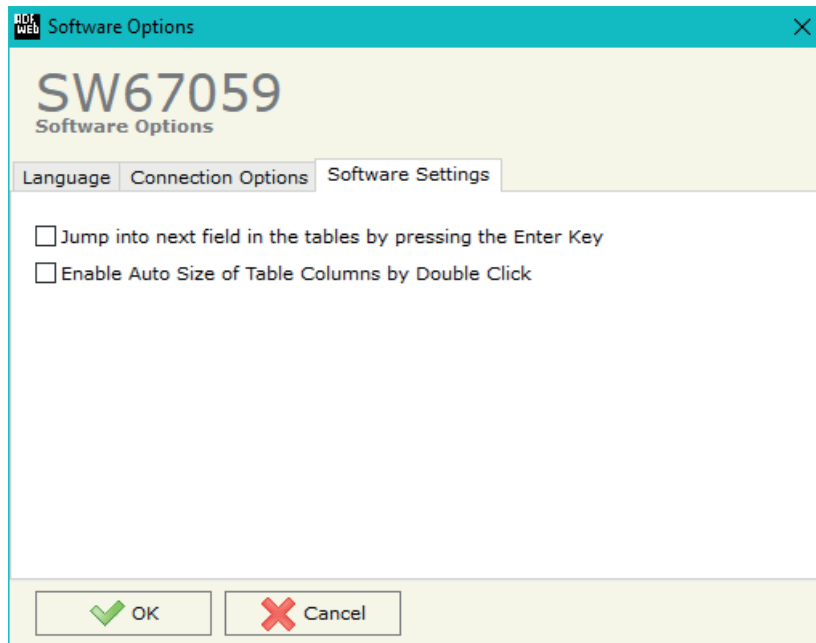
In the section "Language" it is possible to change the language of the software.



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 SW67059 check automatically if there are updatings when it is launched.

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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:

By Pressing the "**Set Communication**" button from the main window for SW67059 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in different sections in order to define the different parameters of the converter:

- Select Device
- M-Bus
- Ethernet
- Modbus Master

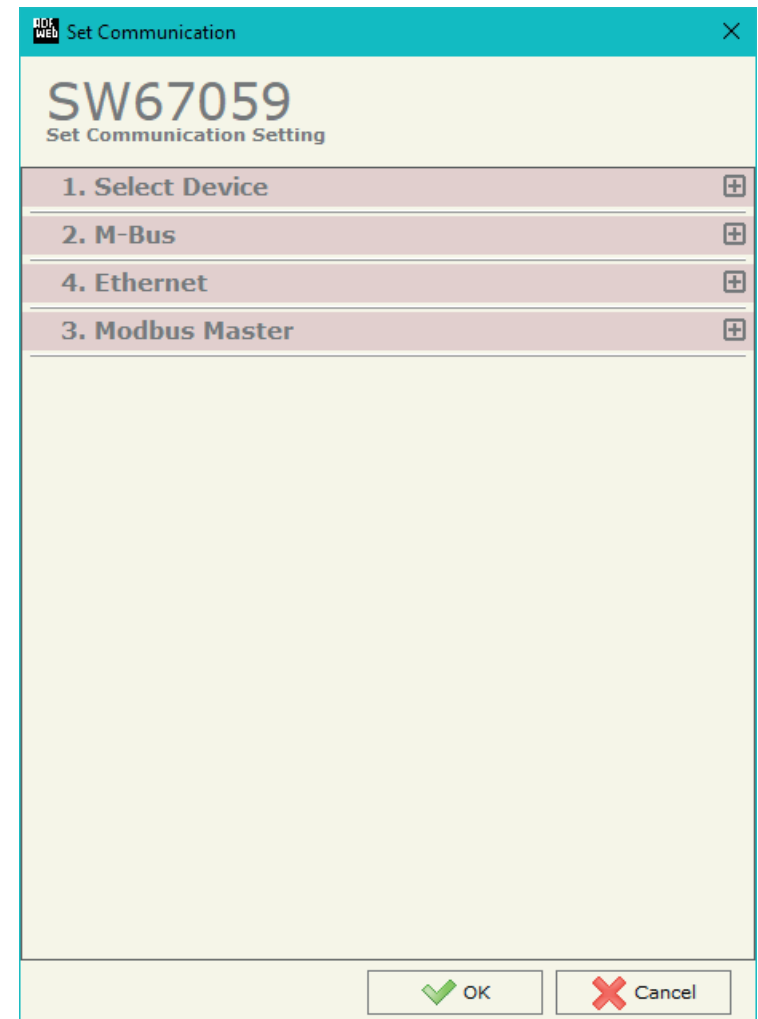


Figure 3a: "Set Communication" window

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SELECT DEVICE:

This section is used to define hardware type used:

- **HD67059M (Serial Update)**: old hardware version (6M box)
- **HD67059-B2 (Serial Update)**: new hardware version (4M box)

M-Bus:

This section is used to define the main parameters of M-Bus line. The means of the fields are:

- In the field "**Baudrate**" the data rate of the M-Bus line is defined;
- In the field "**Parity**" the parity of the M-Bus line is defined;

MODBUS MASTER:

This section is used to define the main parameters of Modbus line. The means of the fields are:

- In the field "**Serial**" the serial port to use is defined (RS232 or RS485);
- 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 "**TimeOut (ms)**" the maximum time that the converter attends for the answer from the Slave interrogated is defined;
- In the field "**Cyclic Delay (ms)**" the delay (idle time) between two Modbus requests is defined;
- In the field "**Protocol**" the protocol used on serial side is defined.

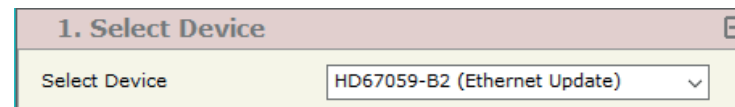


Figure 3b: "Set Communication → Select Device" window

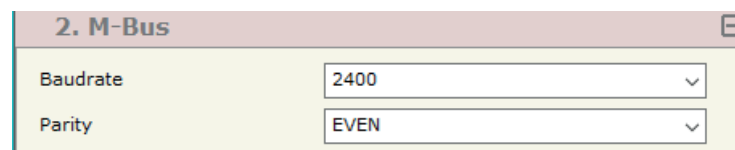


Figure 3c: "Set Communication → M-Bus" window

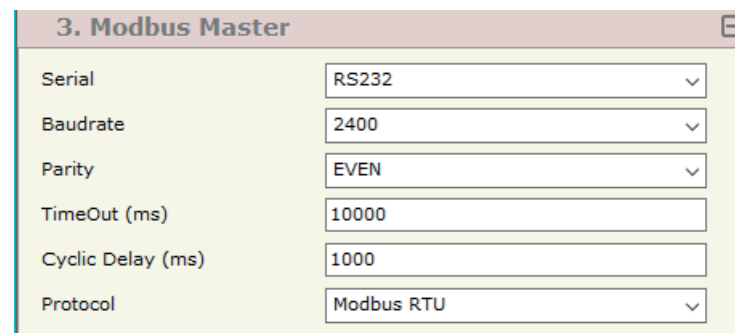


Figure 3d: "Set Communication → Modbus Master" window

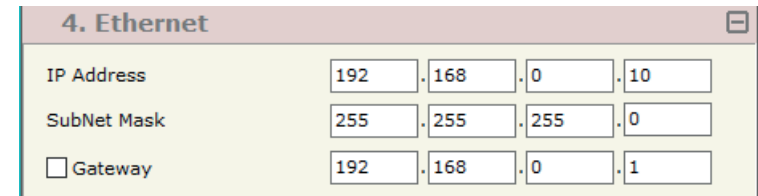
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ETHERNET:

This section is used to define the general parameters of Ethernet. The means of the fields are:

- In the field "**Ip Address**" the IP address of the converter is defined;
- In the field "**SubNet Mask**" the Subnet Mask of the converter is defined;
- In the field "**Gateway**" the default gateway of the net is defined. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;



The screenshot shows a configuration window titled "4. Ethernet". It contains three rows of input fields:

Field	Value 1	Value 2	Value 3	Value 4
IP Address	192	168	0	10
SubNet Mask	255	255	255	0
<input type="checkbox"/> Gateway	192	168	0	1

Figure 3e: "Set Communication → Ethernet" window

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M-BUS

By Pressing the "**M-Bus**" button from the main window for SW67059 (Fig. 2) the window "M-Bus Network" appears (Fig. 4).

In the section "Nodes" it is possible to create the nodes of M-Bus line:

- In the field "**Description**" it is possible to write a short description of the node.
- In order to create a new virtual node it is necessary to define the "**Primary ID**" and the "**Secondary ID**".

After that, pressing the "**ADD NODE**" button, a new node appears in the left side of the window. In order to modify a created node it is necessary to select the desired node, change the wrong items and then press the "**MODIFY NODE**" button.

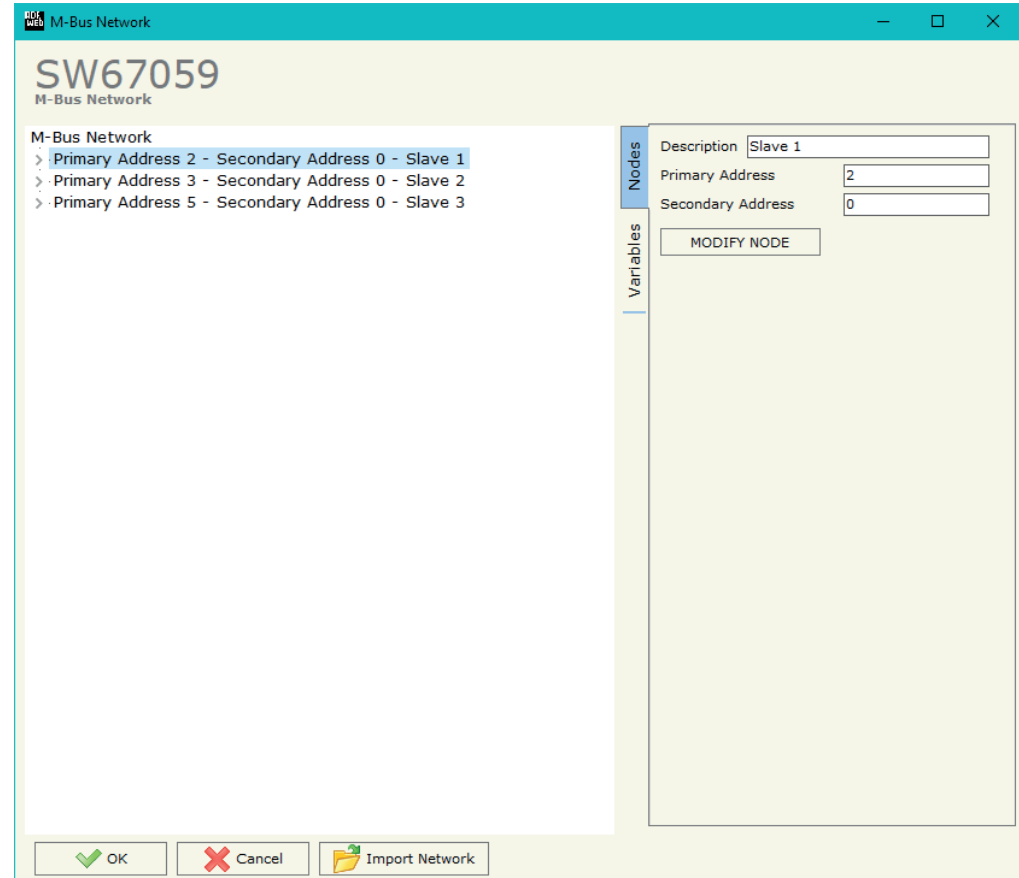


Figure 4: "M-Bus Network" window

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SECTION VARIABLES:

Selecting the desired node it is possible to add a variable. In order to create a new variable it is necessary to fill these items:

- To use the created variable the field "**Enable Variable**" must be checked. If you have created a variable but for the moment it is unused, it is possible to uncheck the field "Enable Variable" without deleting it;
- In the field "**Slave ID**" you have to insert the Modbus slave ID of the device that contain the values that you want to import on M-Bus;
- In the field "**Type of Data**" you have to select the type of Modbus data. It is possible to select: Coil Status, Input Status, Holding Register, Input Register;
- In the field "**Modbus Register**" the start address of the register to be read is defined;
- In the field "**Number of Points**" insert the number of consecutive registers to be read;
- In the field "**Swap**" it is possible to change the bytes' order;
- In the field "**Description**" it is possible to write a description of the variable;
- The field "**Type of Data**" is used to select the unit of measure;
- In the field "**Function Field**" it is necessary to select the type of data;
- The field "**Dimension**" is used to select the dimension of the variable (8, 16, 24, 32, 48, 64 bit, 32 bit Real or Variable Length);
- In the field "**Length**" you have to insert the length of the variable only if the "Dimension" is "Variable Length";
- In the field "**Unit**" if it is necessary it is possible to select the unit of that variable. The Unit is used for indicates from which device the data come;
- In the field "**Scale**" it is necessary to select the value of Scale of the measure;
- In the field "**Storage Number**" if it is necessary it is possible to insert the value of storage counter of that variable. With this field the slave can indicate and transmit various stored counter states or historical values, in the order in which they occur;

The screenshot shows the 'M-Bus Network' software window. The title bar says 'M-Bus Network'. The main window has a header 'SW67059 M-Bus Network'. On the left, there's a tree view under 'M-Bus Network' with 'Primary Address 2 - Secondary Address 0 - Slave 1' expanded, showing 'VAR - S1 - Var1'. On the right, the 'Variables' tab is active. It contains a form with the following fields: 'Enable Variable' (checked), 'Slave ID' (1), 'Type of Data' (Holding Register), 'Modbus Register' (100), 'Number of Points' (2), 'Swap' (None), 'Description' (S1 - Var1), 'Type of Data' (Energy (Wh)), 'Function Field' (Instantaneous Value), 'Dimension (bit)' (32), 'Length (Variable Len)' (1), 'Unit' (0), 'Scale' (Wh * (10 ^ -3)), 'Storage Number' (50), 'Tariff' (66), and 'VIFE' (Not Selected). At the bottom right of the form is a 'MODIFY VARIABLE' button. At the bottom of the window are 'OK', 'Cancel', and 'Import Network' buttons.

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- In the field "**Tariff**" if it is necessary it is possible to insert the value of the tariff of that variable. The Tariff is used for indicates from which device the data come;
- In the field "**VIFE**" it is possible to select a sub-type of "Type of Data".

Having completed this fields, to add the variable the button "**ADD VARIABLE**" must be pressed.

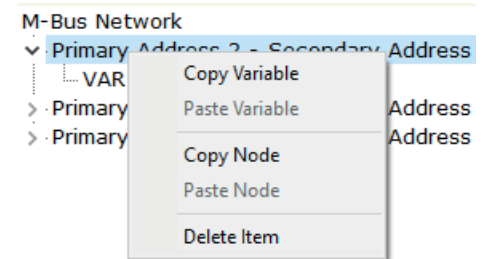
In order to modify a created variable it is necessary to select the desired variable, change the wrong items and then press the "**MODIFY VARIABLE**" button.

COPY, PASTE AND DELETE ITEMS:

By pressing the right button of the mouse over an item (Variable or Node) it is possible to Copy, Paste and Delete.

It is possible to Copy a variable from a Node and copy it to another Node, or copy a Variable from a project and paste in another one.

It is also possible to copy an entire Node with all its Variables.



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Possible choices for the fields used to create a variable:

Type of Data:

- |_Energy (Wh)
- |_Energy (J)
- |_Volume (m³)
- |_Mass (Kg)
- |_On Time
- |_Operating Time
- |_Power (W)
- |_Power (J/h)
- |_Volume Flow (m³/h)
- |_Volume Flow Ext. (m³/min)
- |_Volume Flow Ext. (m³/s)
- |_Mass Flow (Kg/h)
- |_Flow Temperature (°C)
- |_Return Temperature (°C)
- |_Temperature Difference (K)
- |_External Temperature (°C)
- |_Pressure (bar)
- |_Averaging Duration
- |_Actuality Duration
- |_Type of data in VIFE
- |_Time Point
- |_VIF is in ASCII
- |_Unit for H.C.A.
- |_Fabrication No
- |_(Enhaced) Identification
- |_Bus Address

Function Field:

- |_Instantaneous Value
- |_Minimum Value
- |_Maximum Value
- |_Value During Error State

Dimension (bit):

- |_8
- |_16
- |_24
- |_32
- |_32 real
- |_48
- |_64
- |_Variable Length

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VIFE:

- | | |
|--|---|
| _ Not Selected | _ Period of tariff months(s) |
| _ Credit of the nominal local legal currency units | _ Period of tariff year(s) |
| _ Debit of the nominal local legal currency units | _ dimensionless/ no VIF |
| _ Access Number (transmission count) | _ Volts |
| _ Medium (as in fixed header) | _ Ampere |
| _ Manufacturer (as in fixed header) | _ Reset counter |
| _ Parameter set identification | _ Comulation counter |
| _ Model/Version | _ Control signal |
| _ Hardware Version # | _ Day of week |
| _ Firmware Version # | _ Week number |
| _ Software Version # | _ Time point of day change |
| _ Customer Location | _ State of parameter activation |
| _ Customer | _ Special supplier information |
| _ Access Code User | _ Duration since last comulation [hour(s)..year(s)] |
| _ Access Code Operator | _ Operation time battery [hour(s)..year(s)] |
| _ Access Code System Operator | _ Date and time of battery change |
| _ Access Code Developer | _ Energy MWh |
| _ Password | _ Energy GJ |
| _ Error flags (binary) | _ Volume |
| _ Error mask | _ Mass |
| _ Digital Output (binary) | _ Volume 0,1 feet^3 |
| _ Digital Input (binary) | _ Volume 0,1 american gallon |
| _ Baudrate [Baud] | _ Volume 1 american gallon |
| _ response delay time [bittimes] | _ Volume flow 0,001 american gallon/min |
| _ Retry | _ Volume flow 1 american gallon/min |
| _ First storage # for cyclic storage | _ Volume flow 1 american gallon/h |
| _ Last storage # for cyclic storage | _ Power MW |
| _ Size of storage block | _ Power GJ/h |
| _ Storage interval [sec(s)..day(s)] | _ Flow Temperature |
| _ Storage interval month(s) | _ Return Temperature |
| _ Storage interval year(s) | _ Temperature Difference |
| _ Duration since last readout[sec(s)..day(s)] | _ External Temperature |
| _ Start (date/time) of tariff | _ Cold/Warm Temperature Limit °F |
| _ Duration of tariff (nn=01..11:min to day) | _ Cold/Worm Temperature Limit °C |
| _ Period of tariff [sec(s) to day(s)] | _ Cumul. count max power |

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- _ per second
- _ per minute
- _ per hour
- _ per day
- _ per week
- _ per month
- _ per year
- _ per revolution/measurement
- _ increment per input pulse on input channel
- _ increment per output pulse on output channel
- _ per liter
- _ per m³
- _ per kg
- _ per K (Kelvin)
- _ per kWh
- _ per GJ
- _ per kW
- _ per (K*I)(Kelvin*liter)
- _ per V (Volt)
- _ per A (Ampere)
- _ multiplied by sek
- _ multiplied by sek/V
- _ multiplied by sek/A
- _ start date(/time) of
- _ VIF contains uncorrected unit instead of corrected unit
- _ Accumulation only if positive contributions
- _ Accumulation of abs value only if negative contributions
- _ upper/lower limit value
- _ # of exceeds of lower/upper limit
- _ Date(/time) of begin/end of first/last lower/upper limit exceed

- _ Duration of limit exceed
- _ Duration of first/last
- _ Date(/time) of first/last begin/end
- _ Multiplicative currection factor
- _ Additive correction constant * unit of VIF (offset)
- _ Multiplicative correction factor: 10³
- _ future value
- _ next VIFE's and data of this block are manufacturer specific
- _ None
- _ Too many DIFE's
- _ Storage number not implemented
- _ Unit number not implemented
- _ Tariff number not implemented
- _ Function not implemented
- _ Data class not implemented
- _ Data size not implemented
- _ Too many VIFE's
- _ Illegal VIF-Group
- _ Illegal VIF-Exponent
- _ VIF/DIF mismatch
- _ Unimplemented action
- _ No data available (undefined value)
- _ Data overflow
- _ Data underflow
- _ Data error
- _ Premature end of record

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UPDATE DEVICE (FOR HD67059M):

By pressing the **"Update Device"** button it is possible to load the created Configuration into the device, and also the Firmware if is necessary, using the RS232 port.

In order to load the parameters or update the firmware in the device, follow these instructions:

- Turn OFF the Device;
- Connect the RS232 cable from your PC to the Converter;
- Insert the Boot Jumper;
- Select the **"COM port"** and press the **"Connect"** button;
- Turn ON the device;
- Check the "Boot state" Led. It must blink quickly;
- 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;
- Remove the Boot Jumper;
- Disconnect the USB/RS232 cable;
- Turn ON the device.

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

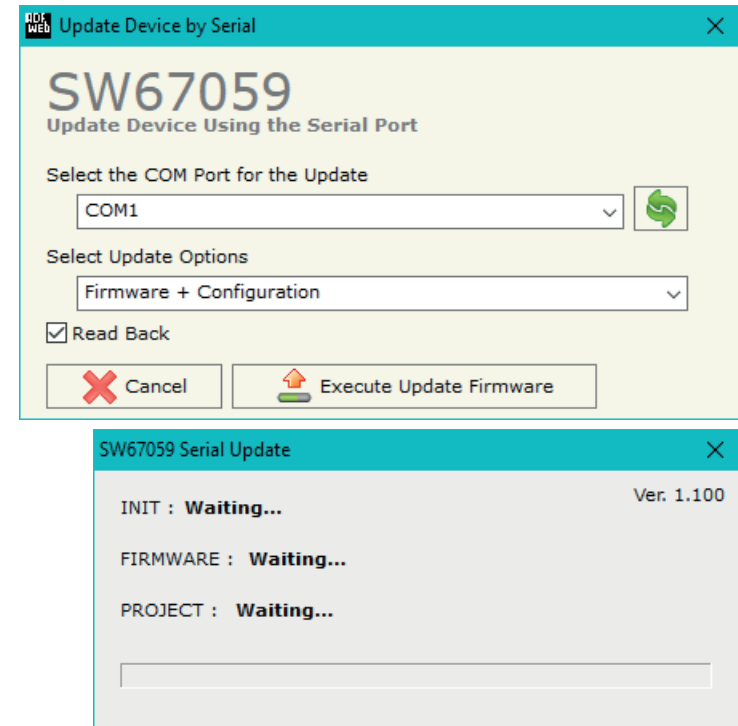


Figure 5a: "Update Device" windows

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UPDATE DEVICE (FOR HD67059-B2):

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.

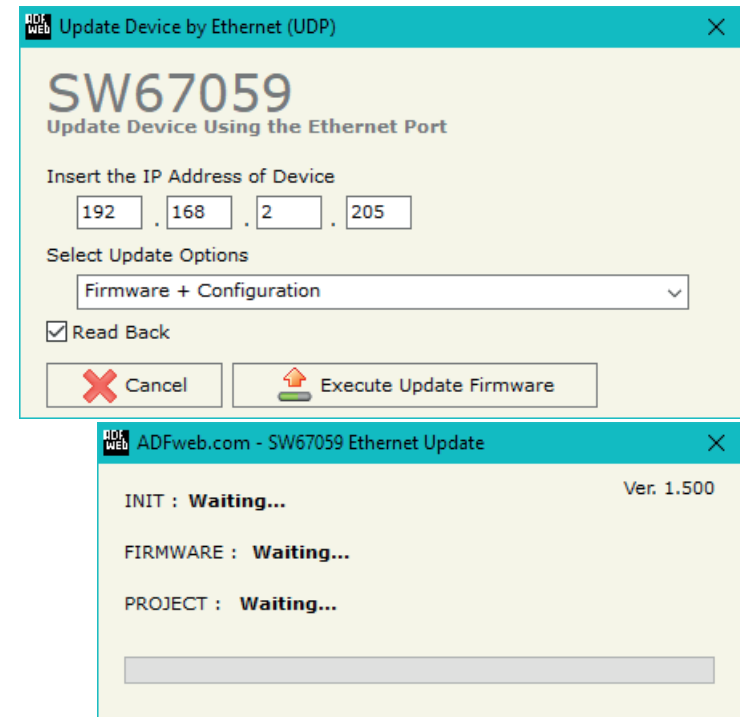


Figure 5b: "Update device" windows

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Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67059 device.



Warning:

If Fig. 6 appears when you try to do the Update try these points before seeking assistance:

- Check if the serial COM port selected is the correct one;
- Check if the serial cable is connected between the PC and the device;
- 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, 10 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.

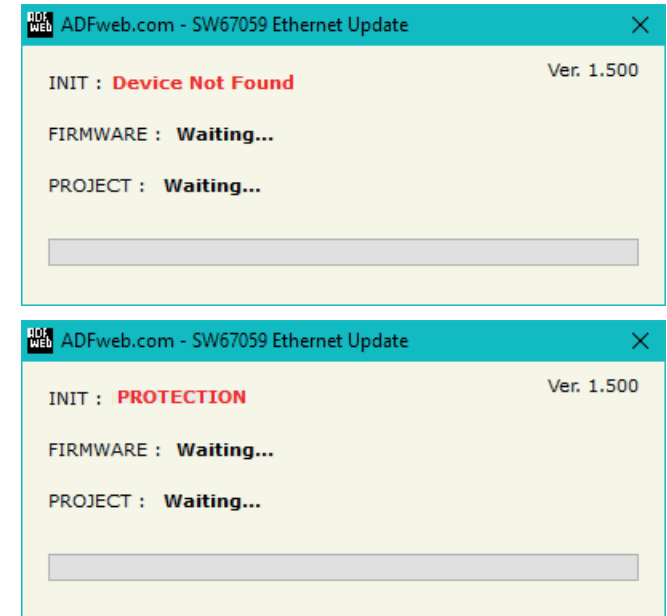


Figure 6: "Error" window



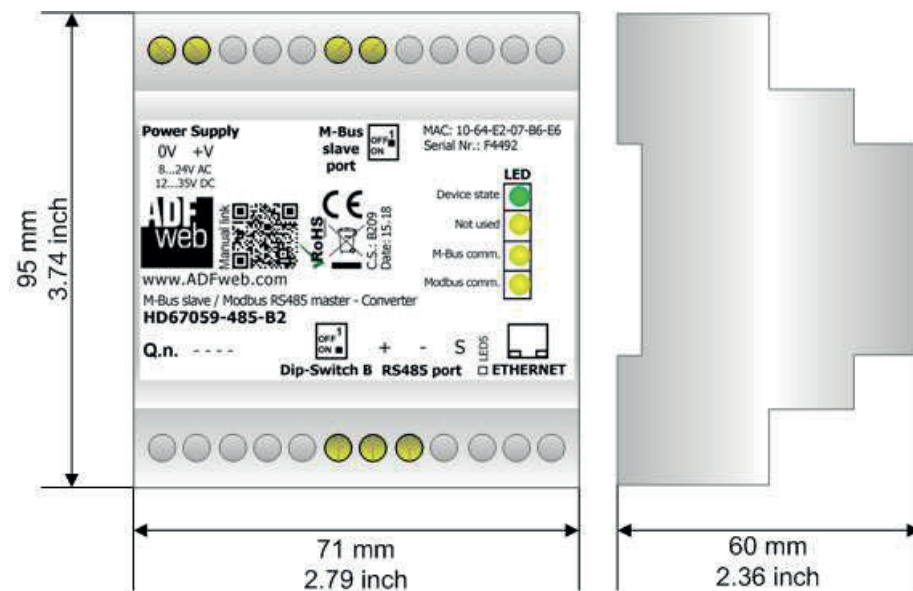
Warning:

In the case of HD67059 you have to use the software "SW67059": www.adfweb.com/download/filefold/SW67059.zip.

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MECHANICAL DIMENSIONS:



Housing: PVC
Weight: 200g (Approx)

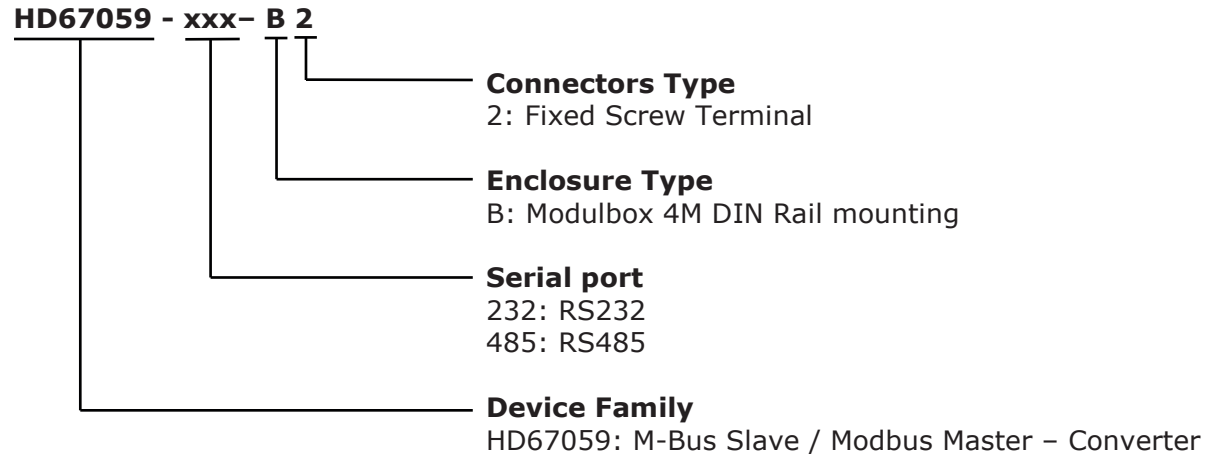
Figure 7: Mechanical dimensions scheme for HD67059-xxx-B2

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ORDERING INFORMATION:

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



Order Code: **HD67059-232-B2** - M-Bus Slave / Modbus Master (RS232)

Order Code: **HD67059-485-B2** - M-Bus Slave / Modbus Master (RS485)

ACCESSORIES:

Order Code: **AC34011** - Isolated Converter 100..240V AC to 12V DC stabilized - AC/DC

Order Code: **AC34012** - Isolated Converter 100..240V AC to 24V DC stabilized - AC/DC

Order Code: **AC34107** - Null Modem Cable Fem/Fem DSub 9 Pin 1,5 m

Order Code: **AC34114** - Null Modem Cable Fem/Fem DSub 9 Pin 5 m

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