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Industrial Electronic Devices

User Manual
Revision 1.001
English

Modbus Slave / Modbus TCP Master - Converter
(Order Code: HD67516-A1-232, HD67516-A1-485)

For Website information:
www.adfweb.com?Product=HD67516

For Price information:
www.adfweb.com?Price=HD67516-A1-232
www.adfweb.com?Price=HD67516-A1-485

Benefits and Main Features:

- 32mm Rail DIN mount
- Wide supply input range
- Triple electrical isolation
- Temperature range: -40°C/+85°C (-40°F/+185°F)

User Manual

For others products, see also the following links:

RS232 / RS485 / USB / Ethernet

www.adfweb.com?Product=HD67118 (RS232 / RS485 - Converter)
www.adfweb.com?Product=HD67119 (USB / RS485 - Converter)
www.adfweb.com?Product=HD67038 (RS485 / RS232 / Ethernet - Converter)

CAN / CANopen / Modbus / Modbus TCP

www.adfweb.com?Product=HD67001 (CANopen / Modbus Master - Converter)
www.adfweb.com?Product=HD67502 (CANopen / Modbus Slave - Converter)
www.adfweb.com?Product=HD67011 (CAN / Modbus Master - Converter)
www.adfweb.com?Product=HD67012 (CAN / Modbus Slave - Converter)
www.adfweb.com?Product=HD67514 (CAN / Modbus TCP Master – Converter)
www.adfweb.com?Product=HD67515 (CAN / Modbus TCP Slave – Converter)

Modbus TCP Slave / Modbus Master - Converter

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

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

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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	15/06/2016	Ff	All	First Release version
1.001	07/07/2025	Mdb	All	New design

WARNING:

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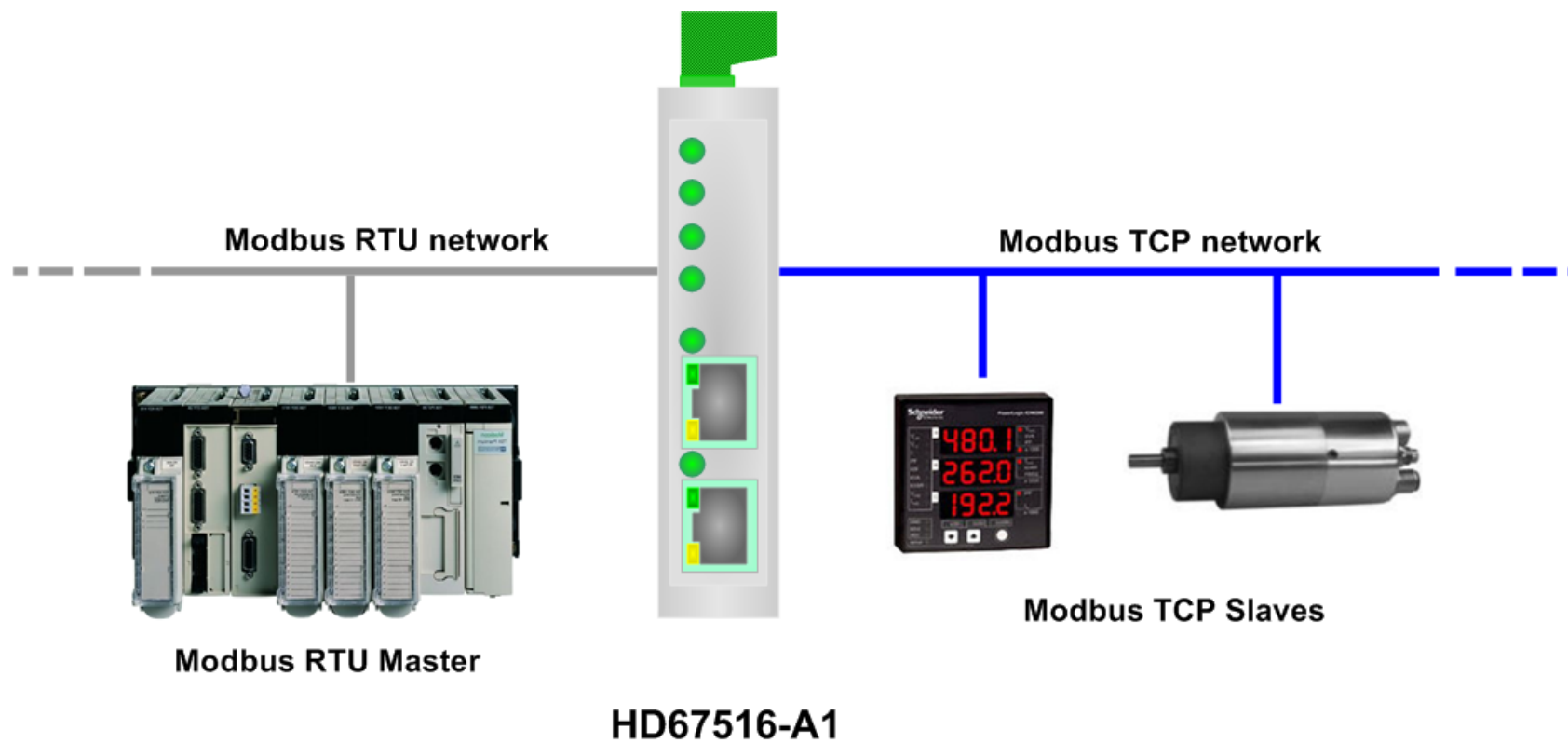
⚠️ This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

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.

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EXAMPLES OF CONNECTION:

HD67516-A1

CONNECTION SCHEME:

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

Led1:
Green
ON

Led2:
Green
Modbus comm.

Led3:
Green
Device State

Led4:
Green
Not used

Led5:
Green
Ethernet1 Tx

Connector3:
Ethernet1 Port
(RJ45 Plug)

Led6:
Green
Ethernet2 Tx

Connector4:
Ethernet2 Port
(RJ45 Plug)

Tx Rx Gnd   +V 0V
RS232 port   Power Supply
8...24V AC
or
12...35V DC

LED1 ON
LED2 Modbus comm.
LED3 Device State
LED4 Not used

LED5 Ethernet1 Tx
Ethernet1

LED6 Ethernet2 Tx
Ethernet2

Modbus Slave / Modbus TCP Master -
Converter
HD67516-A1-232
www.ADFweb.com   Q.n.   - - - -

Dip-Switch A
C.S.: B278   MAC: 10-64-E2-0A-65-D6
Date Code:28.25   Serial Nr.: X0348

Rail DIN
Clamp

Tx Rx GND +V 0V

Connector2:
RS232 (Isolated port)

GND = Ground* (to Isolated Ground)
Rx = Rx line
Tx = Tx line

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 HD67516-A1-232

Dip-Switch A:
-Dip1 – Functioning Mode

[ ] = Normal   [ ] = Boot

Led1:
Green
ON

Led2:
Green
Modbus comm.

Led3:
Green
Device State

Led4:
Green
Not used

Led5:
Green
Ethernet1 Tx

Connector3:
Ethernet1 Port
(RJ45 Plug)

Led6:
Green
Ethernet2 Tx

Connector4:
Ethernet2 Port
(RJ45 Plug)

LED1 ON
LED2 Modbus comm.
LED3 Device State
LED4 Not used
LED5 Ethernet1 Tx
LED6 Ethernet2 Tx

Ethernet1
Ethernet2

+   -   S
RS485 port
Dip-Switch B

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

Modbus Slave / Modbus TCP Master -
Converter
HD67516-A1-485

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

Dip-Switch A

C.S.: B278   MAC: 10-64-E2-0A-46-7A
Date Code:28.25   Serial Nr.: W2320

UK CA

C E

RoHS

Rail DIN
Clamp

A   B   S   +V 0V

Dip-Switch B:
-Dip1 – RS485 Termination Resistor

[ ] = Open   [ ] = 220 Ohm

-Dip2 – Not used

Connector5:
RS485 (Isolated port)

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

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

Figure 1b: Connection scheme for HD67516-A1-485

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CHARACTERISTICS:

The HD67516-A1 is a Modbus Slave / Modbus TCP Master – Converter.

It allows for the following characteristics:

- Triple isolation between Serial - Power Supply, Serial - Ethernet, Power Supply - Ethernet.
- Ethernet 10Base-T / 100Base-T, autosensing for Modbus TCP ;
- 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 SW67516 software on your PC in order to perform the following:

- Define the parameters of Modbus TCP line;
- Define the parameters of Serial Modbus line;
- 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]
HD67516-A1-232	3.5
HD67516-A1-485	3.5

⚠ **Caution: Not reverse the polarity power**
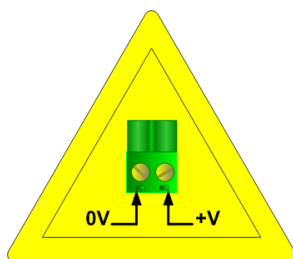
HD67516-A1-232
HD67516-A1-485

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

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

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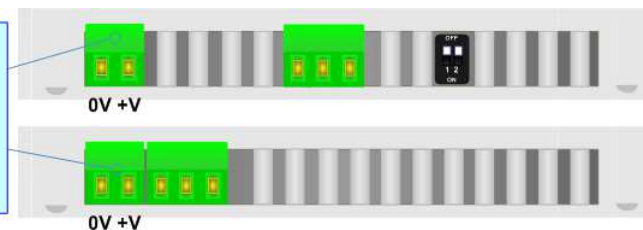
FUNCTION MODES:

The device has got two function modes depending on the position of the 'Dip1 of Dip-Switch A':

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

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

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

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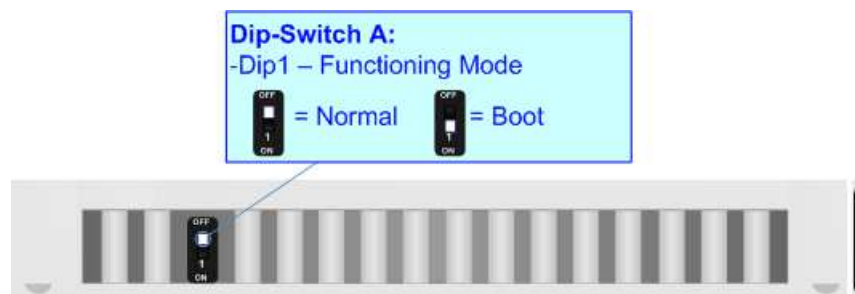
LEDS:

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

LED	Normal Mode	Boot Mode
1: ON [supply voltage] (green)	**ON:** Device powered **OFF:** Device not powered	**ON:** Device powered **OFF:** Device not powered
2: Modbus RTU comm. (green)	Blinks when Modbus requests are received (RS232/RS485)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
3: Device state (green)	Blinks slowly (~1Hz)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
4: Not Used (green)	OFF	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
5: Ethernet1 Tx (green)	Blinks quickly for a short time when Ethernet frames are sent	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
6: Ethernet2 Tx (green)	Blinks quickly for a short time when Ethernet frames are sent	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress

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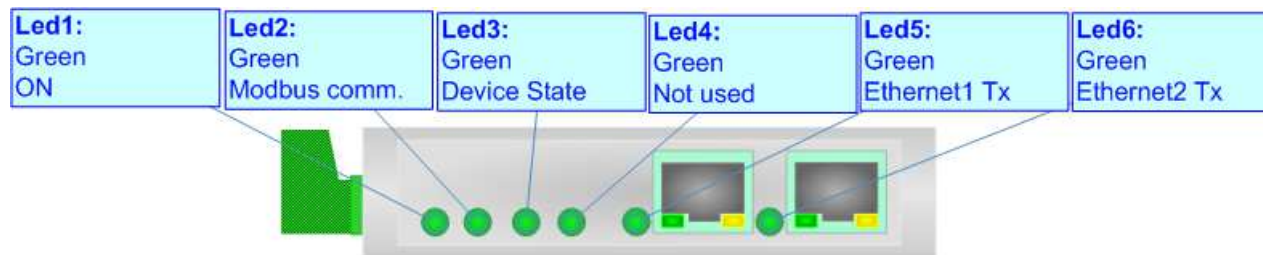
ETHERNET:

The Ethernet connection must be made using Connector3/Connector4 of HD67516-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 a Hub/Switch the use of a straight cable is recommended. To connect the device to a PC/PLC/other the use of a cross cable is recommended.

Connector3:
Ethernet1 Port
(RJ45 Plug)

Connector4:
Ethernet2 Port
(RJ45 Plug)
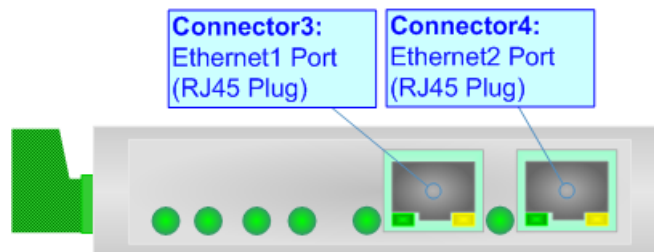
RS232:

The connection from a 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.

Connector2:
RS232 (Isolated port)

GND = Ground* (to Isolated Ground)
Rx = Rx line
Tx = Tx line

Tx
Rx
GND

Industrial Electronic Devices
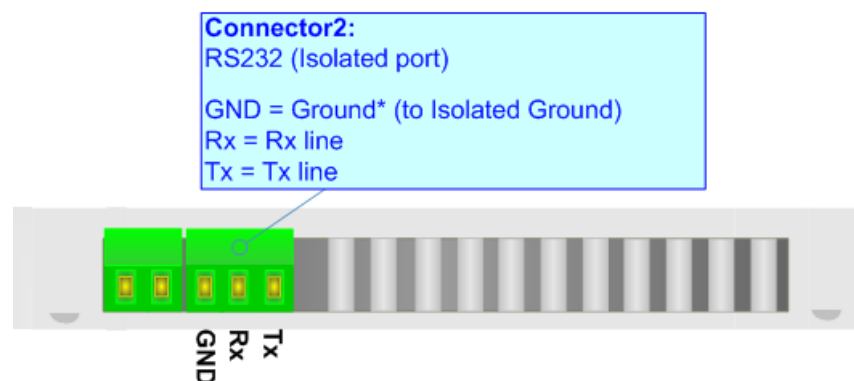
RS485:

To terminate the RS485 line with a 220Ω resistor, it is necessary to put dip 1 ON, like in figure.
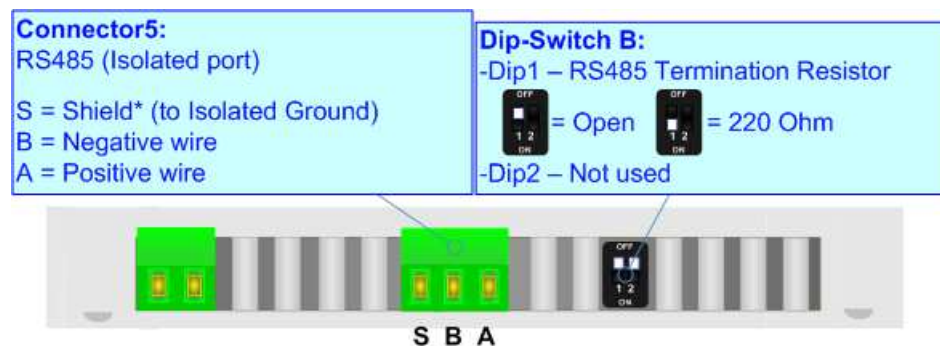
The maximum length of the cable should be 1200m (4000 feet).

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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USE OF COMPOSITOR SW67516:

To configure the Converter, use the available software that runs with Windows called SW67516. 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 SW67516, the window on the right appears (Fig. 2).

Note:
It is necessary to have installed .Net Framework 4.
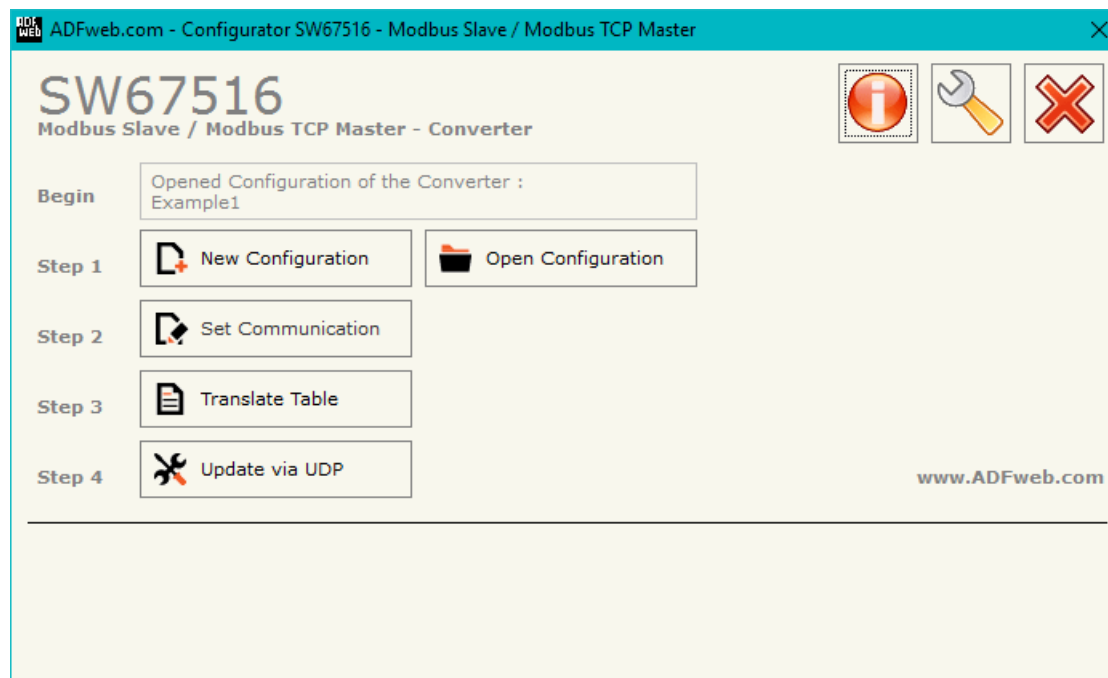
Figure 2: Main window for SW67516

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NEW CONFIGURATION / OPEN CONFIGURATION:

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

SW67516
Create New Configuration

Name of the new Configuration

Example1

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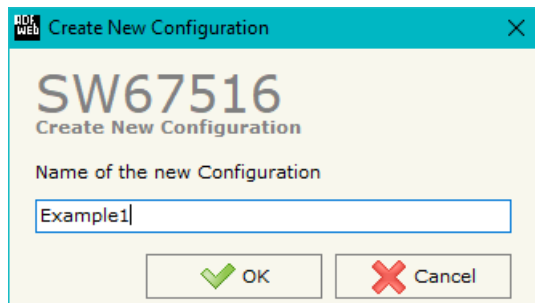
A device's configuration can also be imported or exported:

- To clone the configurations of a Programmable "Modbus Slave / Modbus TCP 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**".

Open Configuration

SW67516
Open an Existing Configuration

List of Avaliable Configurations

Example1
Example2
Example3

OK   Cancel

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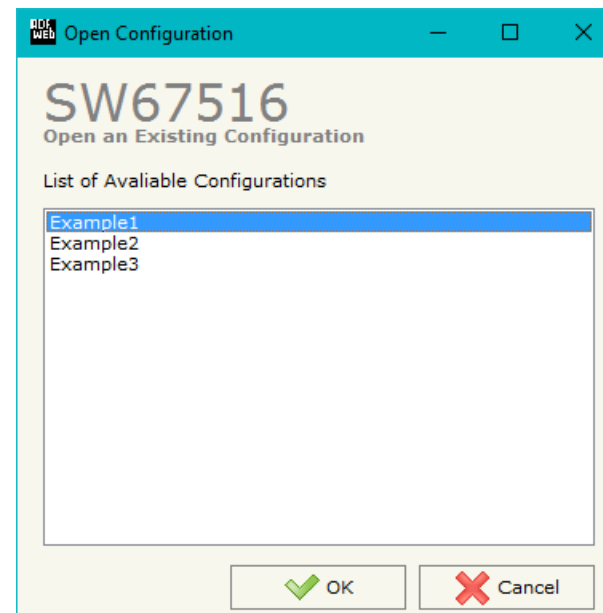
SOFTWARE OPTIONS:

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.
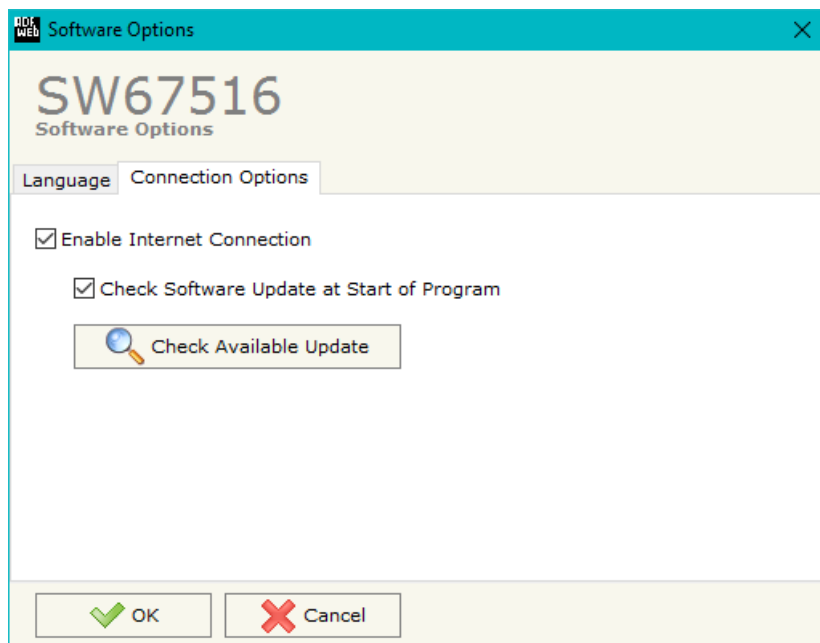
In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website.
Checking the option "**Check Software Update at Start of Program**", the SW67516 check automatically if there are updatings when it is launched.

SET COMMUNICATION:

This section defines the fundamental communication parameters of two buses, Modbus TCP and Modbus RTU.

By pressing the "**Set Communication**" button from the main window for SW67516 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The section "Operation Mode" defines the operation of the Converter in "**Normal Mode (with Translate Table)**", "**Routing Slave Address**" or "**Work with Fix IP Address**" (see the description at page 18).

Figure 3a: "Set Communication" window

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The means for the fields of "Modbus Slave" are:

- In the field "**Serial**" the serial line to use for Modbus communication 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 "**Stop Bits**" the number of Stop Bits of the serial line is defined;
- In the field "**ID Device**" the address of serial Modbus device is defined. This field can be compiled only if the selected "Operation Mode" is "Normal Mode (with Translate Table)" or "Work with Fix IP Address";
- If the option "**No Modbus Exception on TCP TimeOut**" is checked, the converter does not send any exception code in case of missing response from Modbus TCP side. Otherwise, it sends the exception code 0x36.

The means for the fields of "Modbus TCP master" are:

- In the field "**IP ADDRESS**" the IP address of the converter is defined;
- In the field "**SUBNET Mask**" the SubNet Mask 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 "**Port**" the port used for Modbus TCP communication is defined;
- In the field "**Timeout (ms)**" the maximum time that the device has to attend for the answer from the Slave interrogated is defined;
- If the field "**Don't disconnect the socket**" is checked, when the Converter receives the TCP response it does not disconnect the opened socket (open the socket only at the first RTU request and then the socket remains opened); otherwise for every RTU requests the Converter opens the socket and when it receives the TCP response it closes it;

Figure 3b: "Set Communication" window

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Operation Mode:
With this field is possible to select how the converter functions; there are three options:

✦ NORMAL MODE (WITH TRANSLATE TABLE)
Using this function, the Converter can be seen like a single serial Modbus slave. The address of Modbus is assigned in the "Set Communication" section.

✦ ROUTING SLAVE ADDRESS
Using this function, the Converter can be seen like more than one serial Modbus slave. Each serial Modbus slave is a row of the table, and it is possible to assign to which TCP device is linked.

✦ WORK WITH FIX IP ADDRESS
Using this function, the Converter can be seen like a single serial Modbus slave. The address of Modbus is assigned in the "Set Communication" section.
In this mode of functioning is not necessary to compile the Translate Table; every request that arrives on serial is transferred on TCP (using TCP format of frame) to the slave with the IP address defined in the "Set Communication" section.
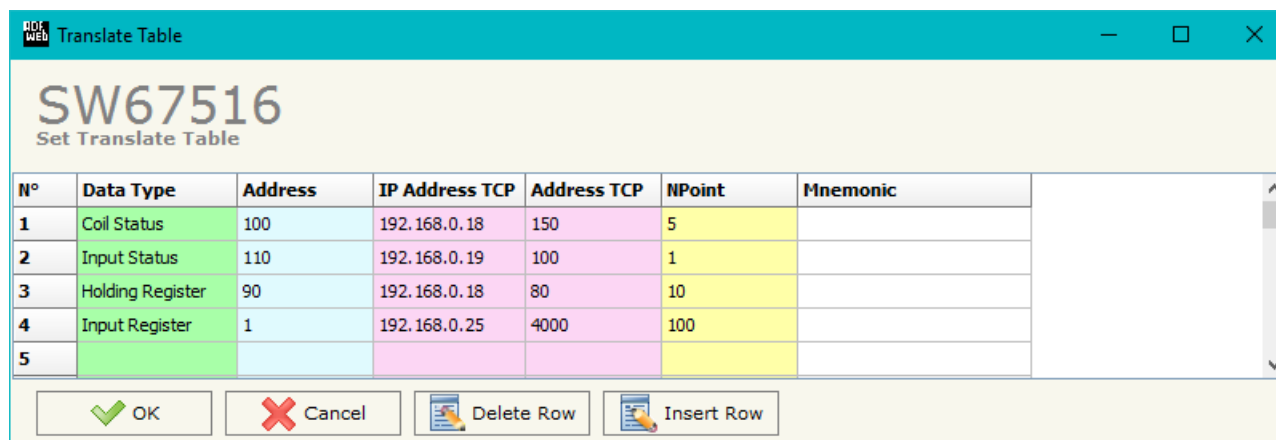
NORMAL MODE (WITH TRANSLATE TABLE):

Using this function, the Converter can be seen like a single serial Modbus slave. The address of Modbus is assigned in the "Set Communication" section.

By pressing the "**Translate Table**" button from the main window for SW67516 (Fig. 2), the window "Set Translate Table" appears (Fig. 4).

The data of the columns have the following meanings:

- In the field "**Data Type**" the type of data that is being considered is defined;
- In the field "**Address**" the address of the Modbus register to be read/written on serial side is defined;
- In the field "**IP Address TCP**" the IP address of the device on the Modbus TCP that contains the data is defined;
- In the field "**Address TCP**" the address of the Modbus register on the TCP device linked to the request from serial side is defined;
- In the field "**N° Point**" the number of consecutive Modbus registers is defined. For example, you create Address =100, Address TCP=150 and N° point = 5, the following gets set-up automatically**:** Addresses TCP 150, 151, 152, 153, 154 and the serial Modbus variables 100, 101, 102, 103, 104;
- In the field "**Mnemonic**" a brief description is defined.

N°	Data Type	Address	IP Address TCP	Address TCP	NPoint	Mnemonic
1	Coil Status	100	192.168.0.18	150	5	
2	Input Status	110	192.168.0.19	100	1	
3	Holding Register	90	192.168.0.18	80	10	
4	Input Register	1	192.168.0.25	4000	100	
5						

OK   Cancel   Delete Row   Insert Row

Figure 4: "Set Translate Table" window

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EXAMPLE 1:

Taking the first row of Figure 4:

Step 1: A serial Modbus master do the request to the Converter to read the "Coil Status" address 100 for 5 consecutive points;

Step 2: The Converter sends to the TCP Slave 192.168.0.18 the read request of "Coil Status" address 150 for 5 consecutive points;

Step 3: The slave TCP replies to the Converter with the data;

Step 4: The Converter sends back the data on serial.

EXAMPLE 2:

Taking the second row of Figure 4:

Step 1: A serial Modbus master do the request to the Converter to read the "Input Status" address 110;

Step 2: The Converter sends to the TCP Slave 192.168.0.19 the read request of "Input Status" address 100;

Step 3: The slave TCP replies to the Converter with the data;

Step 4: The Converter sends back the data on serial.

Figure 5: Chart of Request data from serial Modbus

EXAMPLE 3:

Taking the third row of Figure 4:

Step 1: A serial Modbus master do the request to the Converter to read the "Holding Register" address 90 for 10 consecutive points;

Step 2: The Converter sends to the TCP Slave 192.168.0.18 the read request of "Holding Register" address 80 for 10 consecutive points;

Step 3: The slave TCP replies to the Converter with the data;

Step 4: The Converter sends back the data on serial.

Note:
If the TCP slave responds with an exception, that exception code will be transmitted to the serial master. If the TCP slave does not respond within the estimated time defined by the Timeout parameter, an exception response will be given: error code $36.
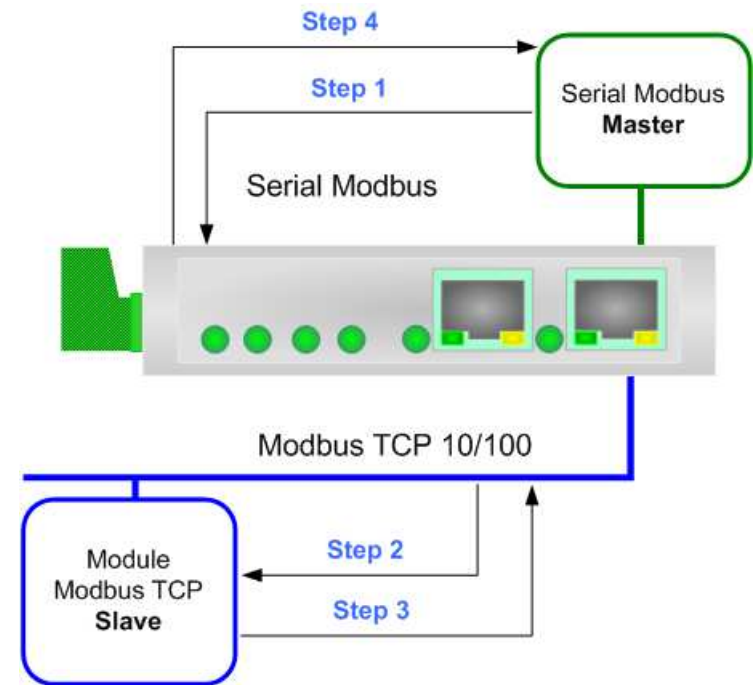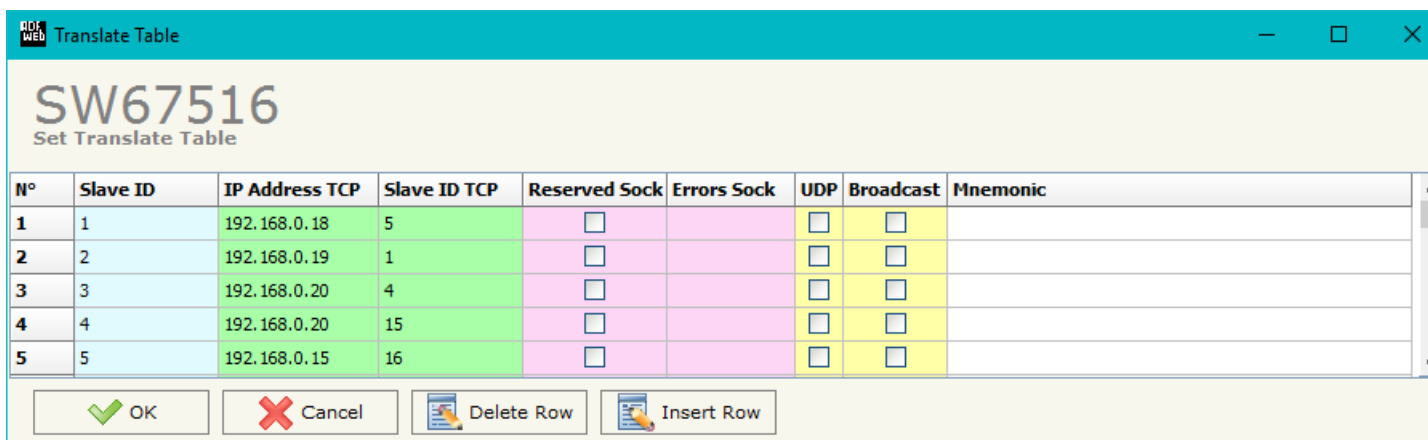
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ROUTING SLAVE ADDRESS:

Using this function, the Converter can be seen like more than one serial Modbus slave. Each serial Modbus slave is a row of the table, and it is possible to assign to which TCP device is linked.

By pressing the "**Translate Table**" button from the main window for SW67516 (Fig. 2) the window "Set Translate Table" appears (Fig. 6).

The data of the columns have the following meanings:

- In the field "**Slave ID**" the virtual address of the device is defined;
- In the field "**IP Address TCP**" the IP address of the device on Modbus TCP side that contains the data is defined;
- In the field "**Slave ID TCP**" the address of the device at TCP device is defined;
- If the field "**Reserved Socket**" is checked, the converter will reserve a socket for the specific Modbus TCP slave. This socket will be closed only after the number of consecutive errors defined in the "**Errors Sock**" column. It is possible to reserve up to 3 sockets for 3 different Modbus TCP slaves;
- If the field "**UDP**" is checked, the converter will send the request on Modbus TCP side using UDP protocol;
- If the field "**Broadcast**" is checked, the converter will send the UDP message in Broadcast. With this setting, it is necessary to set the field "IP Address TCP" with the Broadcast IP Address to use and the converter will not expect a response from the slave device. This option can be used only if "UDP" field is checked;
- In the field "**Mnemonic**" a brief description is defined.

Figure 6: "Set Translate Table" window

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EXAMPLE 1:

Taking the first row of Figure 6:

Step 1: A serial Modbus master do the request to the Converter to read/write a register from the serial slave Modbus ID 1;

Step 2: The Converter sends to the TCP slave 192.168.0.18 the read/write request using the TCP slave ID 5;

Step 3: The slave TCP replies to the Converter with the data;

Step 4: The Converter sends back the data on serial.

EXAMPLE 2:

Taking the second row of Figure 6:

Step 1: A serial Modbus master do the request to the Converter to read/write a register from the serial slave Modbus ID 2;

Step 2: The Converter sends to the TCP slave 192.168.0.19 the read/write request using the TCP slave ID 1;

Step 3: The slave TCP replies to the Converter with the data;

Step 4: The Converter sends back the data on serial.

Figure 7: Chart of Request data from serial Modbus

EXAMPLE 3:

Taking the third row of Figure 6:

Step 1: A serial Modbus master do the request to the Converter to read/write a register from the serial slave Modbus ID 3;

Step 2: The Converter sends to the TCP slave 192.168.0.20 the read/write request using the TCP slave ID 4;

Step 3: The slave TCP replies to the Converter with the data;

Step 4: The Converter sends back the data on serial.

Note:
    If the TCP slave responds with an exception, that exception code will be transmitted to the serial master. If the TCP slave does not respond within the estimated time defined by the Timeout parameter, an exception response will be given: error code $36.
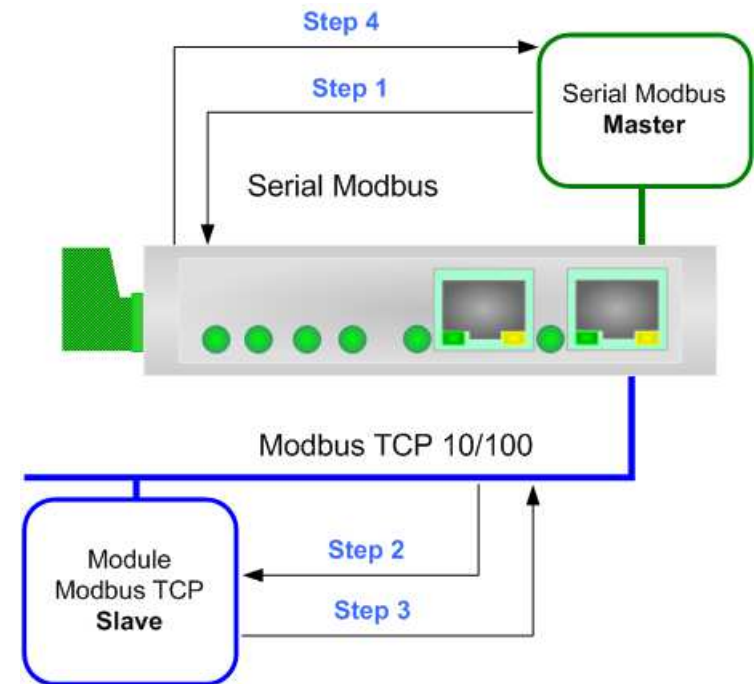
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WORK WITH FIX IP ADDRESS:

Using this function, the Converter can be seen like a single serial Modbus slave. The address of Modbus is assigned in the "Set Communication" section.

In this mode of working is not necessary to compile a Translate Table; every request that arrives on serial is transferred on TCP (using TCP format of frame) to the slave with the IP address defined in the "Set Communication" section.

EXAMPLE 1:

Using the configuration of Figure 3:

Step 1: A serial Modbus master do the request to the Converter to read/write a register from the RTU Slave Address 1;

Step 2: The Converter sends to the TCP slave the read/write request;

Step 3: The slave TCP replies to the Converter with the data;

Step 4: The Converter sends back the data on serial.

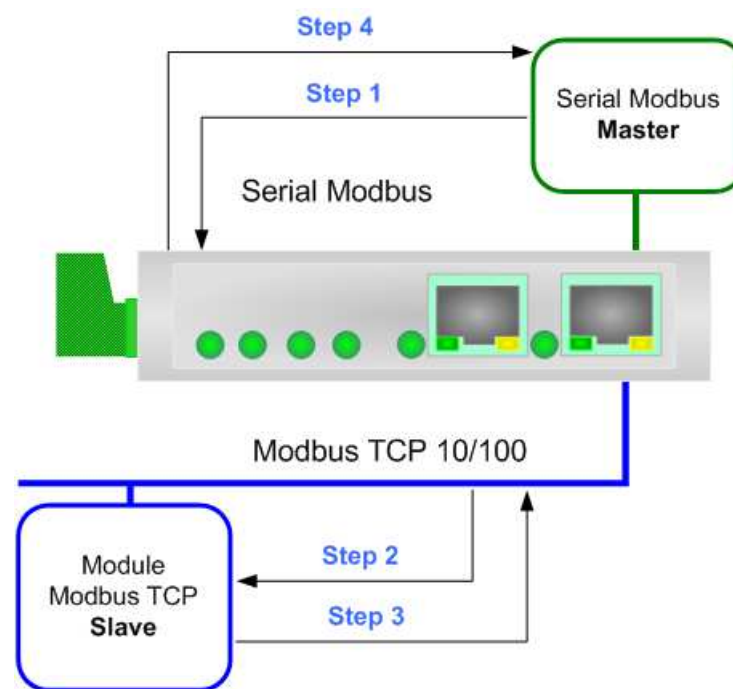*Figure 8: Chart of Request data from serial Modbus*

Note:
      If the TCP slave responds with an exception, that exception code will be transmitted to the serial master. If the TCP slave does not respond within the estimated time defined by the Timeout parameter, an exception response will be given: error code $36.

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UPDATE:

By pressing the "**Update via UDP**" 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**";
- 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' 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;
- 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.

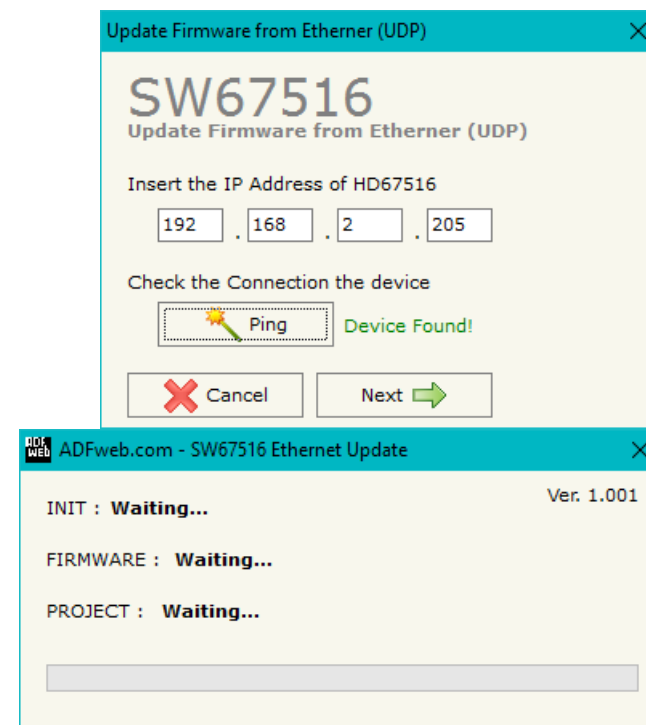At this point the configuration/firmware on the device is correctly updated.

Figure 9: "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 HD67516 device.

Note:
When you receive the device, for the first time, you also have to update the Firmware in the HD67516 device.

Warning:
If Fig. 10 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;
- Check the Wi-Fi 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.

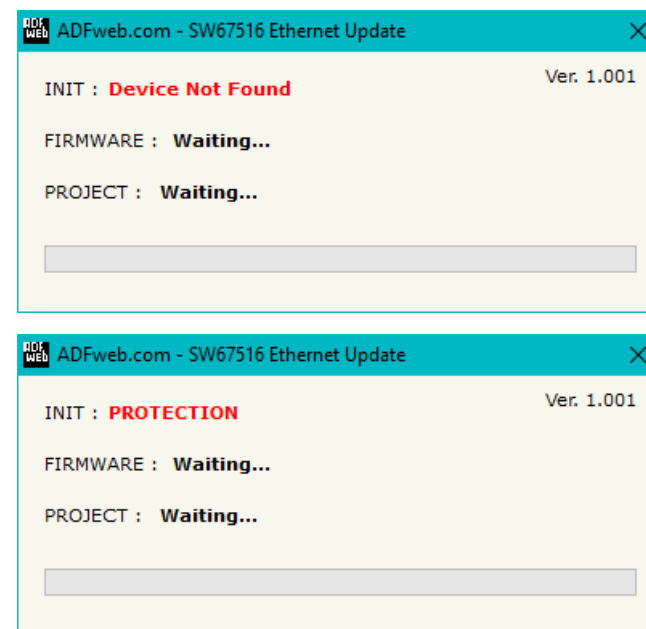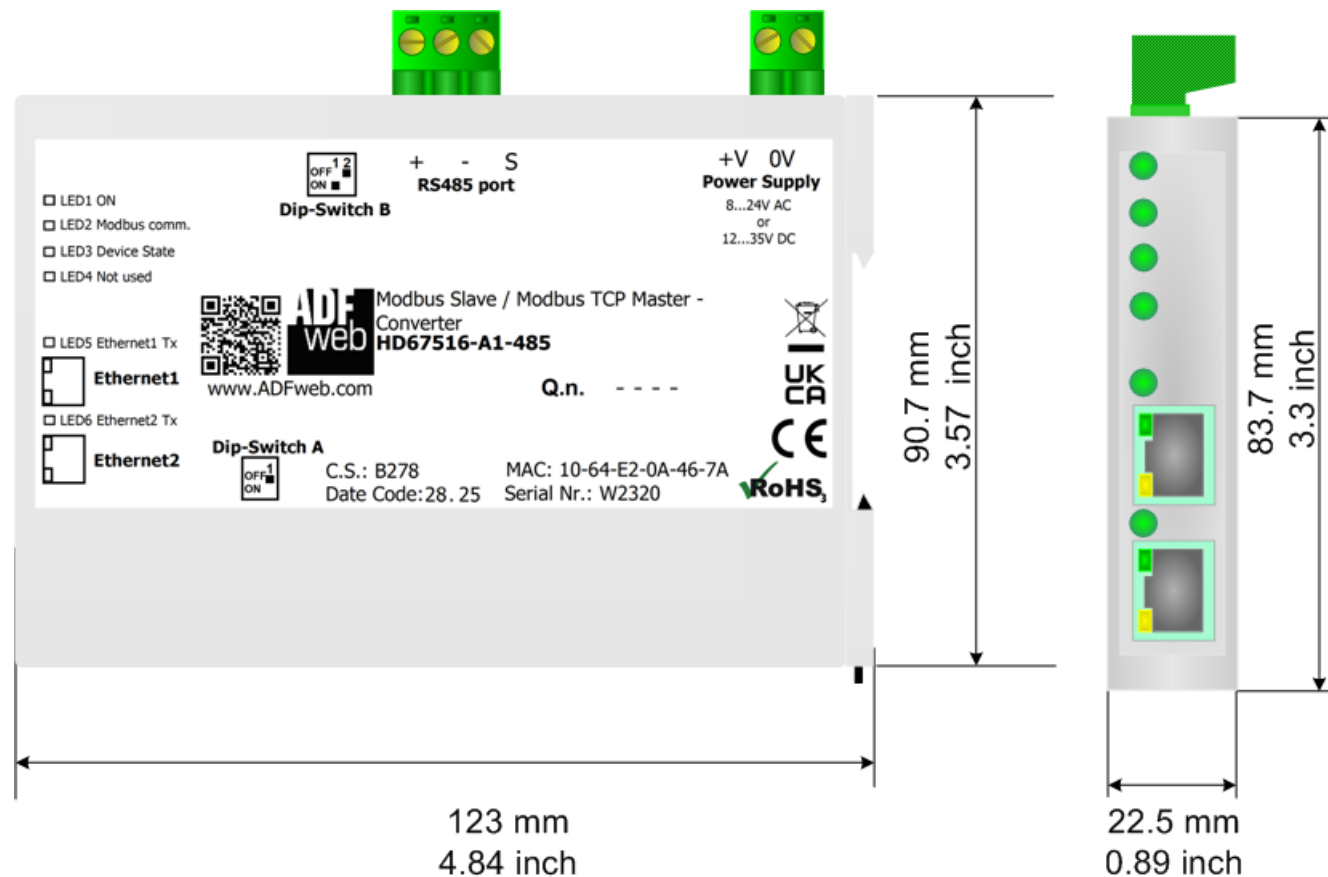In the case of HD67516 you have to use the software "SW67516": www.adfweb.com\download\filefold\SW67516.zip.
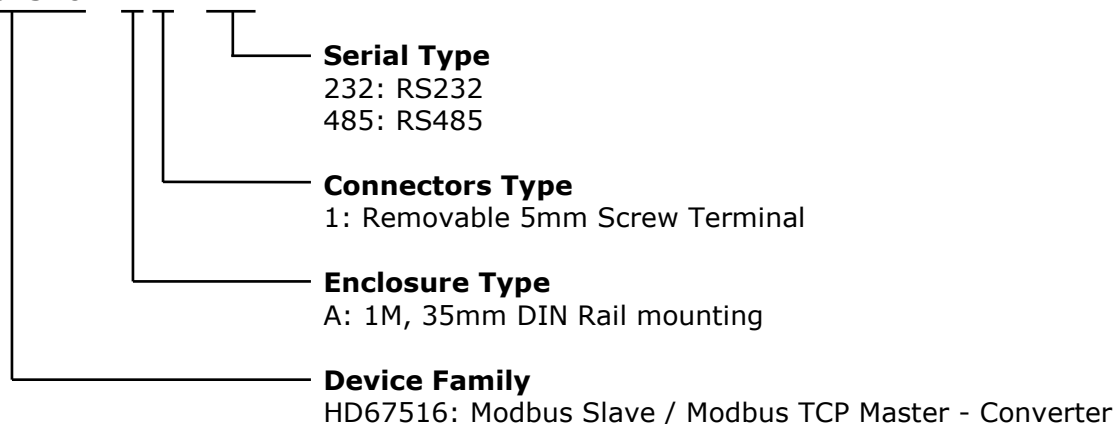
Figure 10: "Protection" window

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MECHANICAL DIMENSIONS:

Figure 11: Mechanical dimensions scheme for HD67516-A1-xxx

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ORDERING INFORMATIONS:

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

HD67516 - A 1 - xxx

Serial Type
232: RS232
485: RS485

Connectors Type
1: Removable 5mm Screw Terminal

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

Device Family
HD67516: Modbus Slave / Modbus TCP Master - Converter

Order Code: **HD67516-A1-232** - Modbus Slave / Modbus TCP Master - Converter (Ethernet Switch Inside for enter/exit connection)

Order Code: **HD67516-A1-485** - Modbus Slave / Modbus TCP Master - Converter (Ethernet Switch Inside for enter/exit connection)

ACCESSORIES:

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

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

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.

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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.