ADFweb

Industrial Electronic Devices

User Manual

Revision 1.001
English

⊕

⊕ Power Supply 18...35V DC and 8...24 V AC

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

User Manual

Industrial Electronic Devices

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:

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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	13/03/2019	Tf	All	First release version
1.001	20/05/2021	Ff	All	Revision

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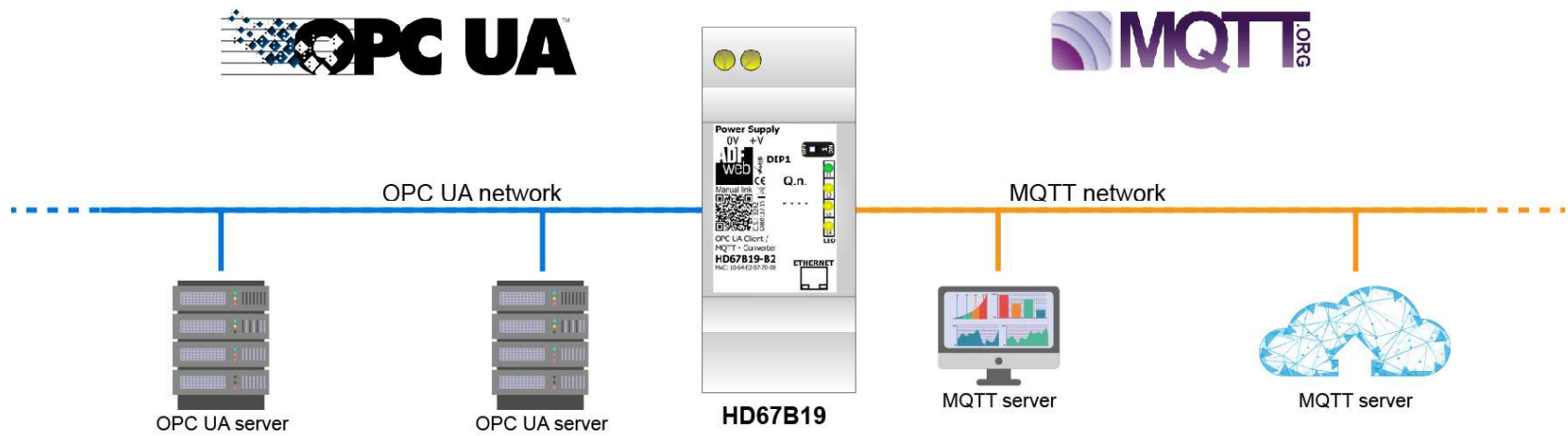
⚠️ This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

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

EXAMPLE OF CONNECTION:

CONNECTION SCHEME:

Connector3:
Ethernet Port
(RJ45 Plug)

Led5:
Green
Link Ethernet

Dip-Switch A:
-Dip1 – Functioning Mode

= Normal Mode

= Boot Mode

Power Supply
0V +V

Led1:
Green
Device state

Led2:
Yellow
OPC UA
comm.

Led3:
Yellow
MQTT
comm.

Led4:
Yellow
Error state

OPC UA Client /
MQTT - Converter
HD67B19-B2
MAC: 10-64-E2-07-7D-00

Connector1:
Power Supply

0V = Ground
+V = Positive wire

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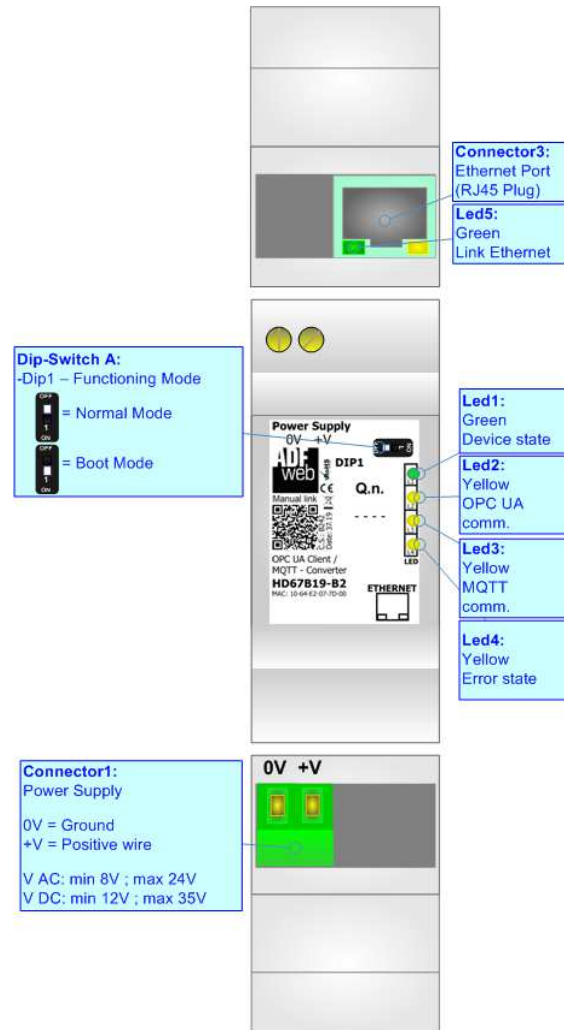V DC: min 12V ; max 35V

0V +V

Figure 1: Connection scheme for HD67B19-B2

CHARACTERISTICS:

The HD67B19-B2 is a OPC UA Client / MQTT Slave converter.

It allows the following characteristics:

- Up to 1500 bytes in reading and 1500 bytes in writing;
- Two-directional information between MQTT and OPC UA;
- 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 SW67B19 software on your PC in order to perform the following:

- Define the parameter of the OPC UA;
- Define the parameter of the MQTT;
- Define the list of OPC UA servers connected to the converter;
- Update the device.

POWER SUPPLY:

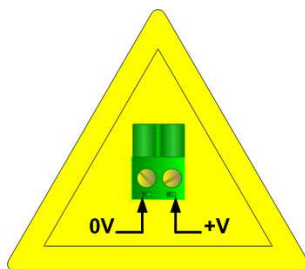The devices can be powered between a wide range of tensions. For more details see the two tables below.

	VAC		VDC	
	Vmin	**Vmax**	**Vmin**	**Vmax**
HD67B19-B2	**8V**	**24V**	**12V**	**35V**

Consumption at 24V DC:

Device	W/VA
HD67B19-B2	4

⚠ **Caution: Not reverse the polarity power**

HD67B19-B2

Connector1:
Power Supply

0V = Ground
+V = Positive wire

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

FUNCTION MODES:

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

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

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

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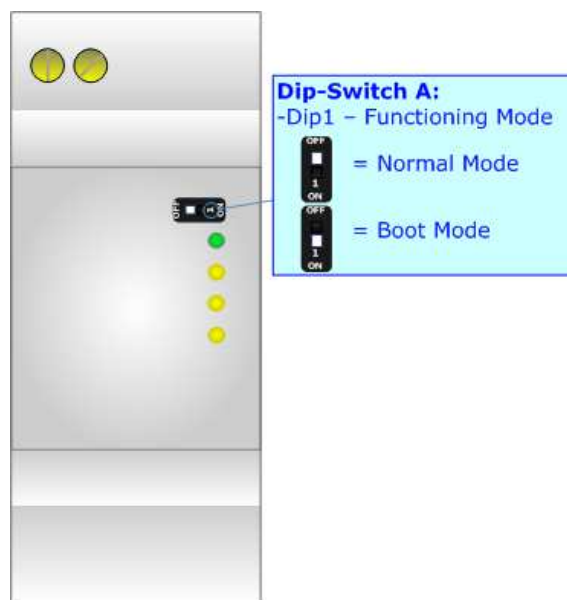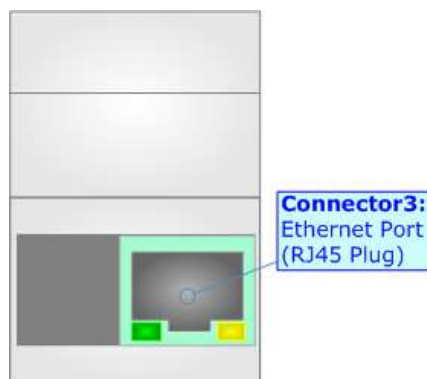
****LEDS:

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

LED	Normal Mode	Boot Mode
1: Device State (green)	Blinks slowly (~1Hz)	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
2: OPC UA comm. (yellow)	**Flashing:** OPC UA response **OFF:** No OPC UA response	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
3: MQTT comm. (yellow)	**Flashing:** MQTT communication **OFF:** No MQTT communication	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
4: Error state (yellow)	**ON:** OPC UA and/or MQTT not connected **OFF:** No errors	**Blinks quickly:** Boot state **Blinks very slowly (~0.5Hz):** update in progress
5: Link Ethernet (green)	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected	**ON:** Ethernet cable connected **OFF:** Ethernet cable disconnected
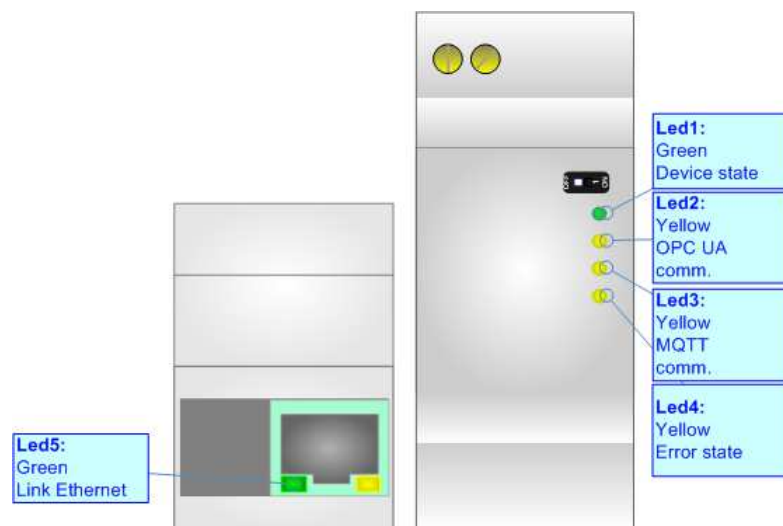
ETHERNET:

The Ethernet connection must be made using Connector3 of HD67B19-B2 with at least a Category 5E cable. The maximum length of the cable should not exceed 100m. The cable has to conform to the T568 norms relative to connections in cat.5 up to 100 Mbps. To connect the device to an Hub/Switch is recommended the use of a straight cable, to connect the device to a PC/PLC/other is recommended the use of a cross cable.

USE OF COMPOSITOR SW67B19:

To configure the Converter, use the available software that runs with Windows called SW67B19. 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 SW67B19, the window below appears (Fig. 2).

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

Figure 2: Main window for SW67B19

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 "OPC UA Client / MQTT - Converter" in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button "**Open Configuration**".
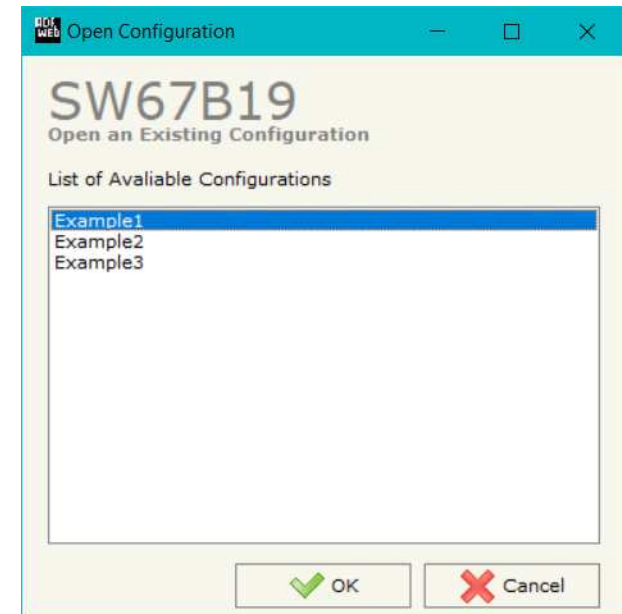
SOFTWARE OPTIONS:

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

In the section "Language" it is possible to change the language of the software.
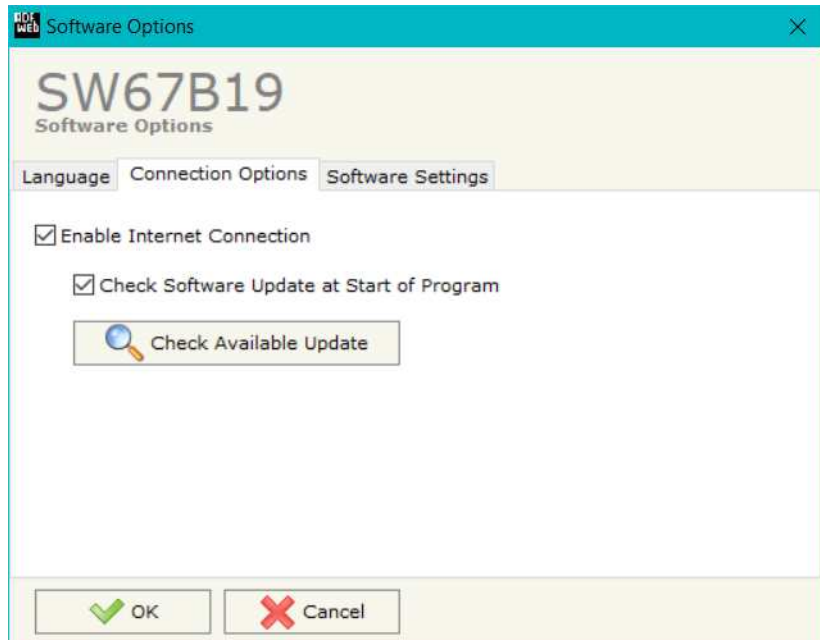
In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website.
Checking the option "**Check Software Update at Start of Program**", the SW67B19 check automatically if there are updatings when it is launched.

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.

Software Options

SW67B19
Software Options

Language | Connection Options | Software Settings

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

✓ OK   ✗ Cancel

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SET COMMUNICATION:

By Pressing the "**Set Communication**" button from the main window for SW67B19 (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
- Ethernet Connection
- OPC UA Client
- MQTT
- Ethernet
- TLS (Transport Layer Security)
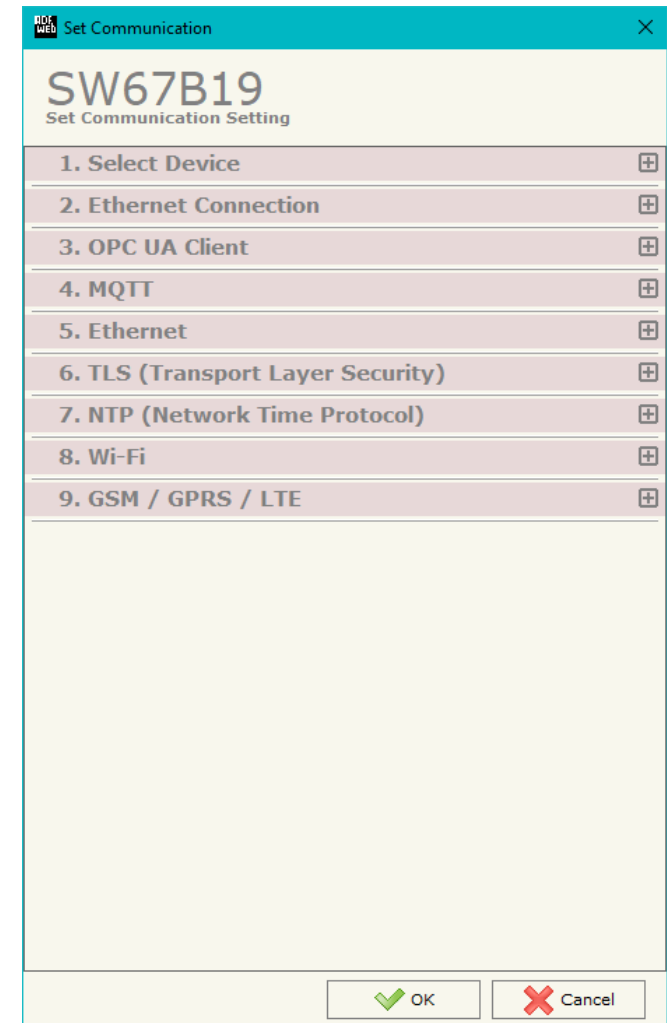- NTP (Network Time Protocol)
- Wi-Fi
- GSM / GPRS / LTE

Set Communication

SW67B19
Set Communication Setting

1. Select Device	⊞
2. Ethernet Connection	⊞
3. OPC UA Client	⊞
4. MQTT	⊞
5. Ethernet	⊞
6. TLS (Transport Layer Security)	⊞
7. NTP (Network Time Protocol)	⊞
8. Wi-Fi	⊞
9. GSM / GPRS / LTE	⊞

✓ OK   ✗ Cancel

Figure 3a: "Set Communication" window

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SELECT DEVICE:

This section is used to select the type of converter in use:

- Only Ethernet Cable: hardware with LAN only;
- Ethernet Cable + Wi-Fi: hardware with LAN and Wi-Fi;
- Ethernet Cable + Mobile connection: hardware with LAN and mobile module;

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

ETHERNET CONNECTION:

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

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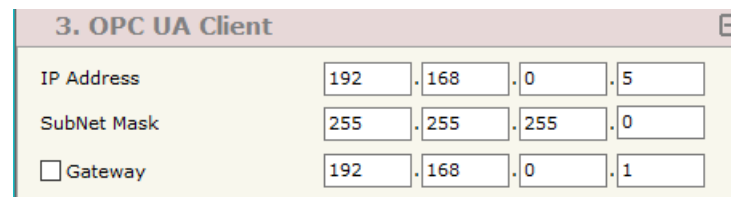

Figure 3c: "Set Communication → Ethernet Connection" window

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OPC UA CLIENT:

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

- In the field "**IP Address**" the IP address for OPC UA side of the converter is defined;
- In the field "**SubNet Mask**" the SubNet Mask for OPC UA side 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.

3. OPC UA Client				
IP Address	192	168	0	5
SubNet Mask	255	255	255	0
☐ Gateway	192	168	0	1

Figure 3d: "Set Communication → OPC UA Client" window

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MQTT:

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

- In the field "**Server URL**" the URL or the IP Address of the MQTT Server is defined;
- In the field "**Server Port**" the port used for MQTT communication is defined;
- In the field "**Client ID**" the Client ID of the converter is defined (if ned);
- In the field "**Keep Alive (seconds)**" the delay with which the Keep Alive message is sent on MQTT is defined;
- If the field "**Clean Session**" is checked, the last MQTT messages are deleted by the Server and the Client in case of missing ACK. If unchecked, the Server and the Client hold the last MQTT messages and, in case of incorrect disconnection or missing ACK, they try to send again them since all the ACK messages are exchanged correctly (valid only for QoS 1 and QoS 2);
- If the field "**Will Flag**" is checked, the converter will publish the Will topic at the connection to the Server. With this feature, in case of incorrect disconnection, the Server will publish this topic to all the MQTT Clients that subscribed it;

Figure 3e: "Set Communication → MQTT" window

- In the field "**Topic Name Will**" the topic used for Will message is defined;
- In the field "**Message Will**" the payload of the Will message is defined;
- In the field "**Retained Will**" the converter will send the Will message with Retain flag enabled. In this way, the Server will hold the last Will message;
- In the field "**QoS Will**" the QoS type for Will message is defined;
- Im the field "**Username**" the username for the connection to the MQTT server is defined;
- In the field "**Password**" the password for the connection to the MQTT server is defined.

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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.

Figure 3f: "Set Communication → Ethernet" window

TLS (TRANSPORT LAYER SECURITY):

This section is used to define the parameters of TLS protocol. The means of the fields are:

- If the field "**Enable TLS**" is checked, the TLS protocol for secure connection is enabled;
- If the field "**Server Authentication**" is checked, the authentication of the Server using TLS is enabled. If enabled, in the field "**Server Certificate**" the certificate from the Server is defined;
- If the field "**Client Authentication**" is checked, the authentication of the Client using TLS is enabled. If enabled:
  - o in the field "**Client Certificate**" the certificate from the Client is defined;
  - o in the field "**Client Key**" the private key of the Client is defined;
  - o in the field "**Client Key Password**" the password for the private key of the Client is defined.
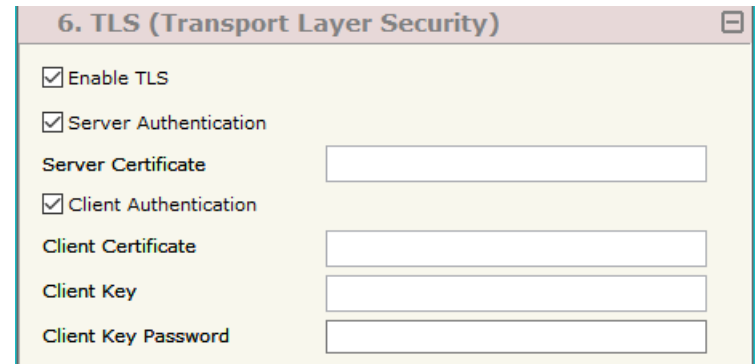
Figure 3g: "Set Communication → TLS" window

NTP (NETWORK TIME PROTOCOL):

This section is used to define the parameters of NTP protocol. The means of the fields are:

- In the field "**Server URL**" the URL or the IP Address of the NTP Server is defined;
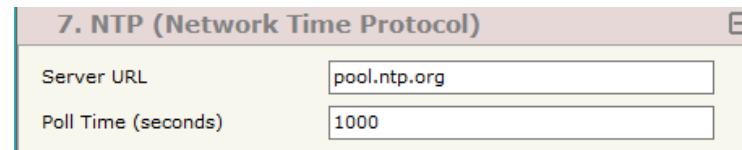- In the field "**Poll Time (seconds)**" the polling time for the time synchronization is defined.

Figure 3h: "Set Communication → NTP" window

WI-FI:

This section is used to define the general parameters of Wi-Fi. It is possible to defined the type of Wi-Fi communication:

- Access Point;
- Station.

The means of the fields for Access Point configuration 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;
- In the field "**SSID**" the name of the Wi-Fi network to create is defined;
- In the field "**Password**" the password used for Wi-Fi connection is defined;
- In the field "**Secure Type**" the type of security protocol used by the Wi-Fi network is defined;
- If the field "**Enable DHCP**" is checked, the converter acts as DHCP Server for the Clients connected. If the option is enabled, in the fields "**DHCP First IP Address**" and "**DHCP SUBNET Mask**" the IP Addresses range used for DHCP is defined. In the field "**Lease Time (seconds)**" the required time for the renewing of the IP Address assigned to the Client is defined;
- In the field "**Max Client**" the maximum number of Wi-Fi Clients accepted is defined;
- In the field "**Channel**" the channel for Wi-Fi communication is defined.
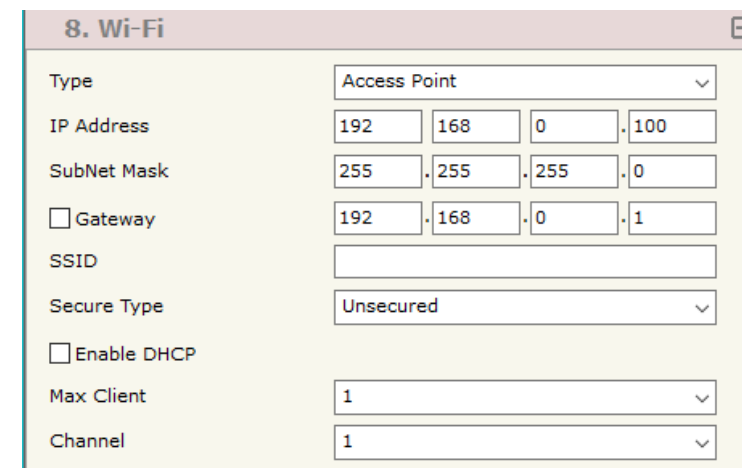
Figure 3i: "Set Communication → Wi-Fi" window

The means of the fields for Station configuration are:

- In the field "**IP Address**" (OPC UA Client) the IP address for OPC UA side of the converter is defined;
- In the field "**Subnet Mask**" (OPC UA Client) the SubNet Mask for OPC UA side of the converter is defined;
- In the field "**GATEWAY**" (OPC UA Client) the default gateway of the OPC UA 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;
- In the field "**IP Address**" (MQTT) the IP address for MQTT side of the converter is defined;
- In the field "**Subnet Mask**" (MQTT) the SubNet Mask for MQTT side of the converter is defined;
- In the field "**GATEWAY**" (MQTT) the default gateway of the MQTT 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;
- In the field "**SSID**" the name of the Wi-Fi network to connect is defined;
- In the field "**Password**" the password used to connect to the Wi-Fi network is defined.

Figure 3j: "Set Communication → Wi-Fi" window

GSM / GPRS / LTE:

This section is used to define the parameters of mobile connection. The means of the fields are:

- In the field "**PIN**" the PIN for the SIM card (if ned) is defined;
- In the field "**APN**" the APN for the mobile operator used is defined;
- In the filed "**Authentication Type**" the type of authentication to the mobile network is defined;
- In the field "**Username**" the username for the authentication is defined;
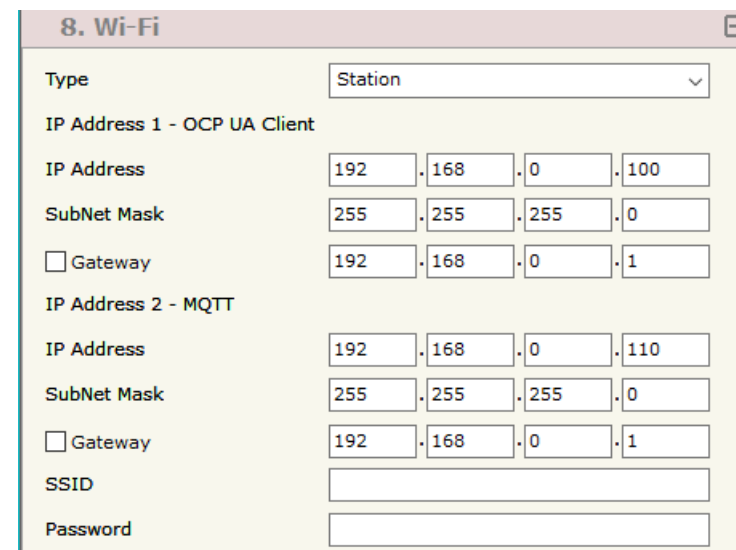- In the field "**Password**" the password for the authentication is defined.
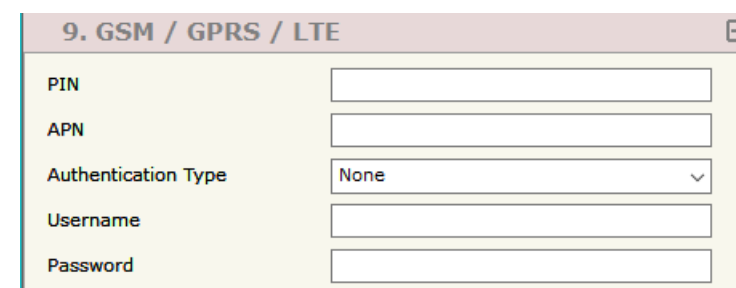

Figure 3k: "Set Communication → GSM / GPRS" window

OPC UA ACCESS:

By Pressing the "**OPC UA Client Access**" button from the main window for SW67B19 (Fig. 2) the window "OPC UA Client Access" appears (Fig. 4).
This section is used to define the list of the OPC UA Servers to read/write with the OPC UA Client.
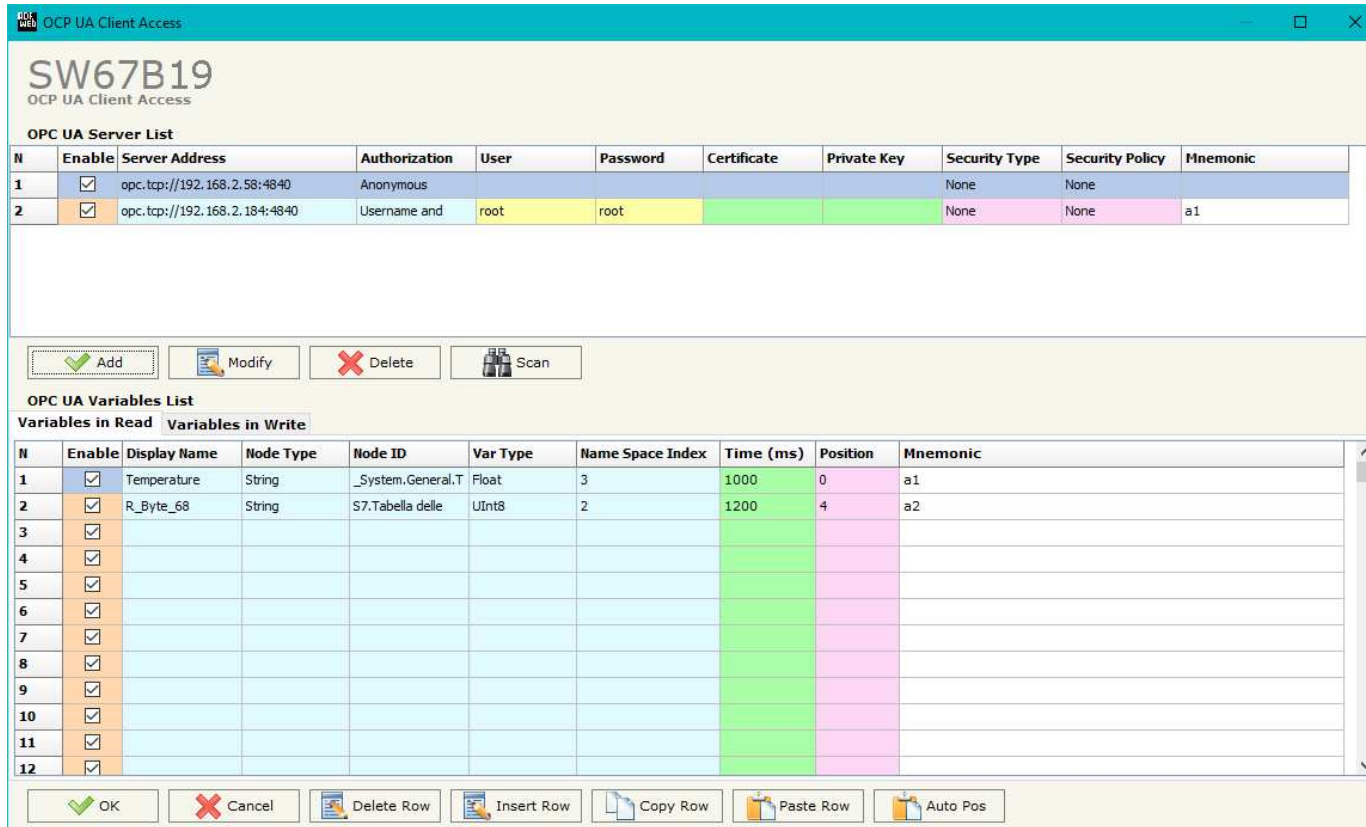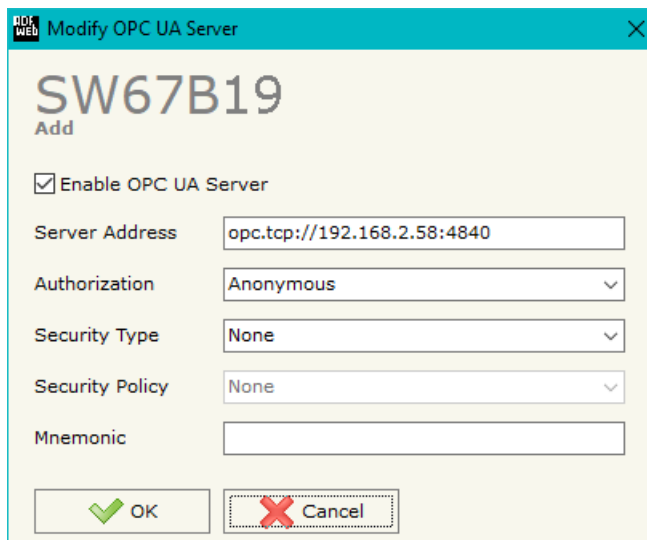

Figure 4: "OPC UA Client Access" window

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By clicking on "**Add**", it is possible to add a new OPC UA Server inserting its characteristics (Server Address, Authorization, Security Type…). The window "Add OPC UA Server" appears (Fig. 5). By clicking on "**Modify**", it is possible to change these characteristics for the selected Server. The window "Modify OPC UA Server" appears (Fig. 6).

Figure 5: "Add OPC UA Server"   *Figure 6: "Modify OPC UA Server"*

By clicking on "**Scan**", it is possible to get the list of available variables from the selected Server. The window "Scan Server OPC UA" appears (Fig. 7).
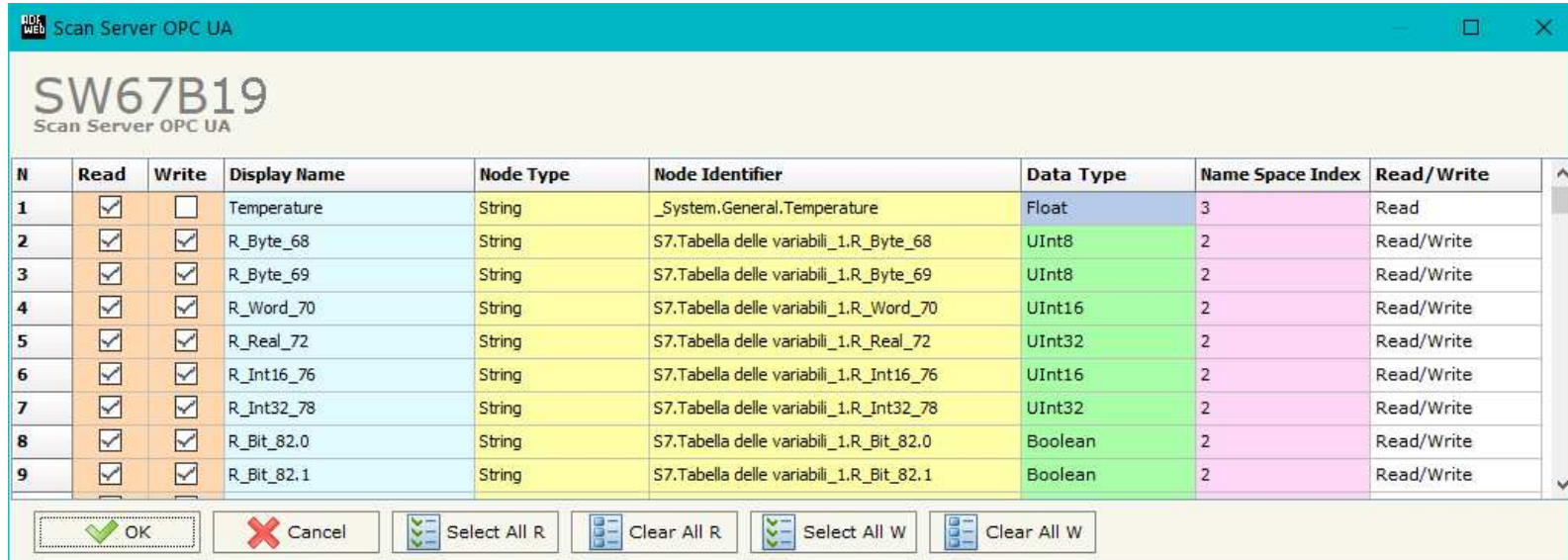

SW67B19
Scan Server OPC UA

N	Read	Write	Display Name	Node Type	Node Identifier	Data Type	Name Space Index	Read/Write
1	☑	☐	Temperature	String	_System.General.Temperature	Float	3	Read
2	☑	☑	R_Byte_68	String	S7.Tabella delle variabili_1.R_Byte_68	UInt8	2	Read/Write
3	☑	☑	R_Byte_69	String	S7.Tabella delle variabili_1.R_Byte_69	UInt8	2	Read/Write
4	☑	☑	R_Word_70	String	S7.Tabella delle variabili_1.R_Word_70	UInt16	2	Read/Write
5	☑	☑	R_Real_72	String	S7.Tabella delle variabili_1.R_Real_72	UInt32	2	Read/Write
6	☑	☑	R_Int16_76	String	S7.Tabella delle variabili_1.R_Int16_76	UInt16	2	Read/Write
7	☑	☑	R_Int32_78	String	S7.Tabella delle variabili_1.R_Int32_78	UInt32	2	Read/Write
8	☑	☑	R_Bit_82.0	String	S7.Tabella delle variabili_1.R_Bit_82.0	Boolean	2	Read/Write
9	☑	☑	R_Bit_82.1	String	S7.Tabella delle variabili_1.R_Bit_82.1	Boolean	2	Read/Write

OK   Cancel   Select All R   Clear All R   Select All W   Clear All W

Figure 7: "Scan Server OPC UA" window

The means of the checkboxes inside the table are:

 ♦ If the field "**Read**" is checked, the variable can be read;
 ♦ If the field "**Write**" is checked, the variable can be written.

Note:
For each variable, it is possible to uncheck these fields and the variable will not be used in read/write.

After the scan, the selected variables will appear in "Variables in Read" and/or "Variables in Write" sections, in the lower part of the window "OPC UA Client Access" (Fig. 4).
The "Variables in Read" section is used to define the OPC UA variables to publish on MQTT side (Fig. 8).

Figure 8: "Variables in Read" section

The means of the fields are:

- If the field "**Enable**" is checked, the OPC UA variable is enabled;
- In the field "**Display name**" the name of the OPC UA variable is defined;
- In the field "**Node Type** " the type of the OPC UA node, which includes the variable, is defined;
- In the field "**Node ID**" the name of the OPC UA node, which includes the variable, is defined;
- In the field "**Var Type**" the data format of the OPC UA variable is defined;
- In the field "**Name Space Index**" the Name Space Index of the node, which includes the variable, is defined;
- In the field "**Time (ms)**" the delay in ms between two readings of the variable is defined;
- In the field "**Position**" the starting byte of the internal memory arrays where saving the value is defined;
- In the field "**Mnemonic**" a description of the variable is defined.

The "Variables in Write" section is used to define the OPC UA variables to write from MQTT side (Fig. 9).

Figure 9: "Variables in Write" section

In "Variables in Write" section (Fig. 8), the means of the fields are:

- If the field "**Enable**" is checked, the OPC UA variable is enabled;
- In the field "**Display name**" the name of the OPC UA variable is defined;
- In the field "**Node Type** " the type of the OPC UA node, which includes the variable, is defined;
- In the field "**Node ID**" the name of the OPC UA node, which includes the variable, is defined;
- In the field "**Var Type**" the data format of the OPC UA variable is defined;
- In the field "**Name Space Index**" the Name Space Index of the node, which includes the variable, is defined;
- If the field "**On Change**" is checked, the OPC UA variable is sent when the data on MQTT changes the value;
- If the field "**On CMD**" is checked, the OPC UA variable is sent when a MQTT message is received;
- If the field "**On Timer**" is checked, the OPC UA variable is sent cyclically;
- In the field "**Time (ms)**" the delay in ms between two writings of the variable is defined (if "On Timer" is checked);

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- In the field "**Position**" the starting byte of the internal memory arrays where getting the value is defined;
- In the field "**Mnemonic**" a description of the variable is defined.

Note:
By clicking on "**Auto Pos**", the position of the internal memory arrays where saving/getting the value of variable is automatically calculated.

Note:
A variable can be added manually in "Variables in Read" and/or "Variables in Write" sections without scanning the OPC UA Server.

MQTT SET TOPIC:

By Pressing the "**MQTT Set Topic**" button from the main window for SW67B19 (Fig. 2) the window "Set MQTT Topics" appears (Fig. 10).
This section is used to define the MQTT topics where the converter will publish the data from OPC UA and the topic that the converter will subscribes for writing the data to OPC UA.

MQTT PUBLISH

N	Topic	Retained	QoS	Data Type	Dimension	Position	Template	OnChange	OnTimer	Time(ms)	Mnemonic
1	Test1	☑	0	Int	4	0	$VALUE$	☐	☑	1000	Desc Test1
2	Test2	☐	0	Int	4	4	$VALUE$	☐	☑	5000	Desc Test2
3		☐						☐	☐		
4		☐						☐	☐		
5		☐						☐	☐		

Figure 10a: "Set MQTT Topics → MQTT Publish" window

The means of the fields are:

➜ In the field "**Topic**" the MQTT topic is defined;
➜ If the field "**Retained**" is defined, the retained flag is enabled. The MQTT server will hold the last topic published;
➜ In the field "**QoS**" the QoS level is defined;
➜ In the field "**Data Type**" the type of data to use is defined;
➜ In the field "**Dimension**" the dimension in byte of the data is defined;
➜ In the field "**Position**" the starting byte of the internal memory array where taking the data is defined;
➜ In the field "**Template**" the structure of the MQTT payload is defined. With a double click on it, it is possible to open a window for editing it;
➜ If the field "**On Change**" is checked, the converter publishes the topic when the data from OPC UA are changed;

- If the field "**On CMD**" is checked, the converter publishes the topic when a new message from OPC UA is received;
- If the field "**On Timer**" is checked, the converter publishes the topic cyclically with the delay defined in the field "**Time (ms)**";
- In the field "**Mnemonic**" a description of the topic is defined.

MQTT SUBSCRIBE
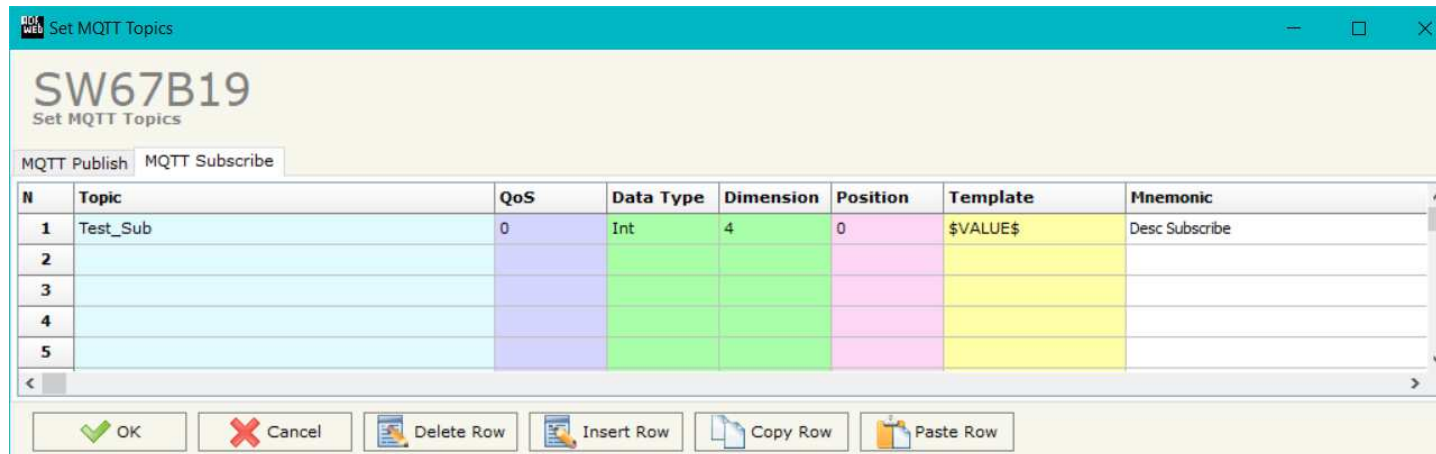
Figure 10b: "Set MQTT Topics → MQTT Subscribe" window

The means of the fields are:

- In the field "**Topic**" the MQTT topic is defined;
- If the field "**Retained**" is defined, the retained flag is enabled. The MQTT server will hold the last topic published;
- In the field "**QoS**" the QoS level is defined;
- In the field "**Data Type**" the type of data to use is defined;
- In the field "**Dimension**" the dimension in byte of the data is defined;
- In the field "**Position**" the starting byte of the internal memory array where placing the data is defined;
- In the field "**Template**" the structure of the MQTT payload is defined. With a double click on it, it is possible to open a window for editing it;
- In the field "**Mnemonic**" a description of the topic is defined.

UPDATE DEVICE:

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

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

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

If you know the actual IP address of the device, you have to use this procedure:

- Turn ON the Device with the Ethernet cable inserted;
- Insert the actual IP of the Converter;
- Select which operations you want to do;
- Press the "**Execute update firmware**" button to start the upload;
- When all the operations are "OK" the device automatically goes at Normal Mode.

Figure 11: "Update device" windows

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

⚠️ Warning:
    If DHCP is enabled, it is possible to make the updating from Boot Mode only.
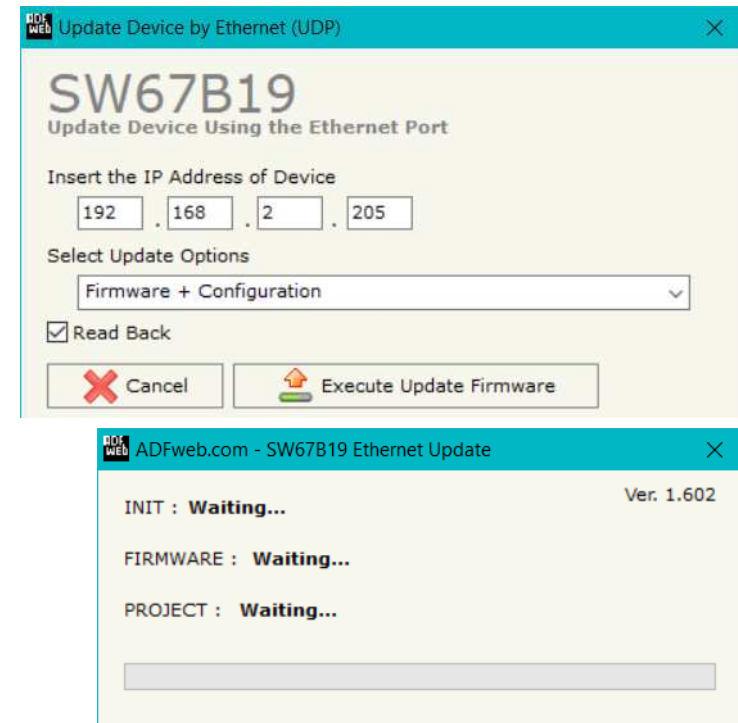
Note:
When you receive the device, for the first time, you also have to update the Firmware in the HD67B19 device.

Warning:
If Fig. 12 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, 10 you have to launch the "Command Prompt" with Administrator Rights;
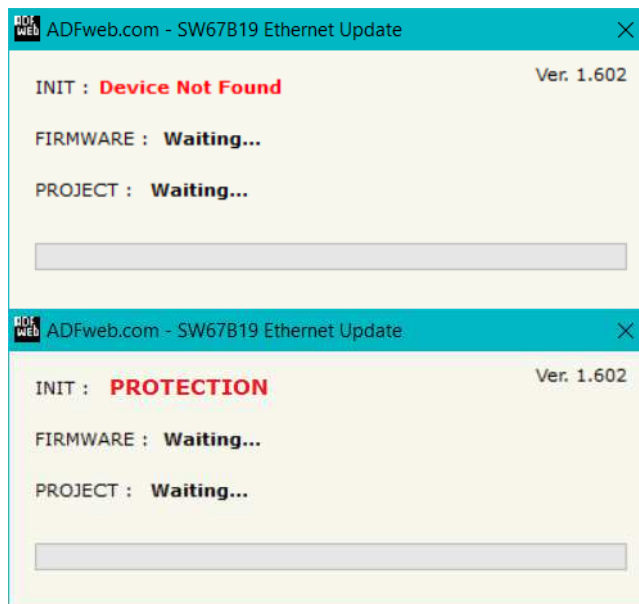- Pay attention at Firewall lock.

Figure 12: "Error" window

Warning:
In the case of HD67B19 you have to use the software "SW67B19": www.adfweb.com\download\filefold\SW67B19.zip.

TEMPLATE STRING: DEFINITION OF MQTT PAYLOAD

In the section "Set Communication" of the SW67B19, it is possible to define a Template string for the MQTT messages. The template is necessary in order to define the structure of the payload of the MQTT message and the info contained.
It is possible to have a simple text format or a JSON format.

The definition of the template can be done using Key words, used to link a specific information from/to OPC UA. The key words used and their meanings are:
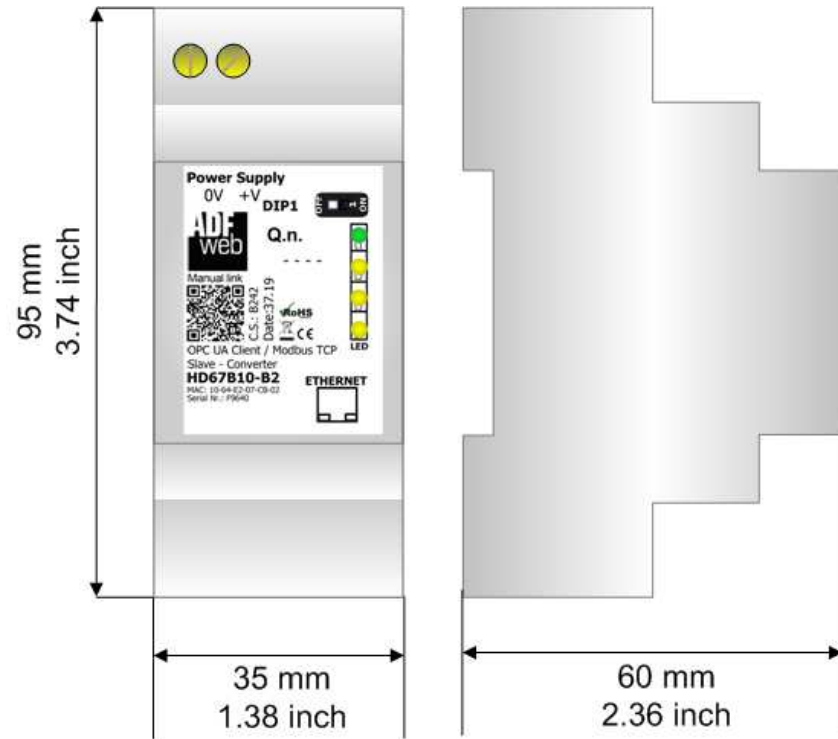
- VALUE: value of the OPC UA data
- TIME: date and time of the MQTT message
- DESC: description of the message

⚠ Warning:
    The key words must be defined between "$" chars in order to be recognized (Ex.: $VALUE$).

Industrial Electronic Devices

MECHANICAL DIMENSIONS:

Housing: PVC
Weight: 200g
(Approx)

Figure 13: Mechanical dimensions scheme for HD67B19-B2

Industrial Electronic Devices

ORDERING INFORMATIONS:

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

HD67B19 – B 2

Connectors Type
2: Fixed Screw Terminal

Enclosure Type
B: Modulbox 4M, 35mm DIN Rail mounting

Device Family
HD67B19: OPC UA Client / MQTT - Converter
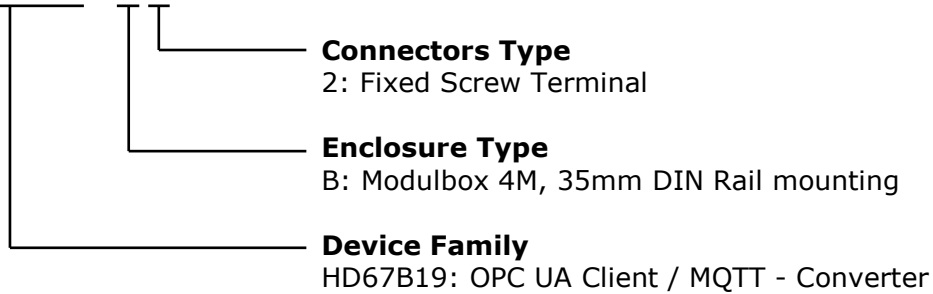
Order Code: **HD67B19-B2**   -   OPC UA Client / MQTT - Converter

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

DISCLAIMER:

All technical content within this document can be modified without notice. The content of the document is a under continual renewal.
For losses due to fire, earthquake, third party access or other accidents, or intentional or accidental abuse, misuse, or use under abnormal conditions repairs are charged to the user. ADFweb.com S.r.l. will not be liable for accidental loss of use or inability to use this product, such as loss of business income. ADFweb.com S.r.l. shall not be liable for consequences of improper use.

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.

Industrial Electronic Devices

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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