

# User Manual

Revision 1.000  
English

## IEC61850 Client / PROFIBUS Slave - Converter

(Order Code: HD67777-A1)

for Website information:

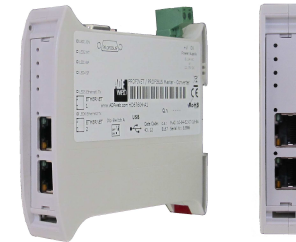
<http://www.adfweb.com/?Product=HD67777>

for Price information:

<http://www.adfweb.com/?Price=HD67777-A1>

### Benefits and Main Features:

- ⊕ Triple electrical isolation
- ⊕ Two Ethernet ports
- ⊕ Temperature range: -40°C/+85°C (-40°F/+185°F)



For others IEC61850 Client devices, see also the following links:

#### IEC61850 Client from/to ...

[www.adfweb.com?Product=HD67D34](http://www.adfweb.com?Product=HD67D34)  
[www.adfweb.com?Product=HD67E14](http://www.adfweb.com?Product=HD67E14)  
[www.adfweb.com?Product=HD67765](http://www.adfweb.com?Product=HD67765)  
[www.adfweb.com?Product=HD67766](http://www.adfweb.com?Product=HD67766)  
[www.adfweb.com?Product=HD67767](http://www.adfweb.com?Product=HD67767)  
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[www.adfweb.com?Product=HD67771](http://www.adfweb.com?Product=HD67771)  
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[www.adfweb.com?Product=HD67774](http://www.adfweb.com?Product=HD67774)  
[www.adfweb.com?Product=HD67775](http://www.adfweb.com?Product=HD67775)  
[www.adfweb.com?Product=HD67776](http://www.adfweb.com?Product=HD67776)  
[www.adfweb.com?Product=HD67778](http://www.adfweb.com?Product=HD67778)  
[www.adfweb.com?Product=HD67779](http://www.adfweb.com?Product=HD67779)  
[www.adfweb.com?Product=HD67780](http://www.adfweb.com?Product=HD67780)  
[www.adfweb.com?Product=HD67781](http://www.adfweb.com?Product=HD67781)

(LoRaWAN)  
 (EtherCAT)  
 (Modbus Slave)  
 (Modbus TCP Slave)  
 (BACnet Slave)  
 (CAN)  
 (CANopen)  
 (DeviceNet Slave)  
 (EtherNet/IP Slave)  
 (J1939)  
 (KNX)  
 (MQTT)  
 (NMEA0183)  
 (NMEA2000)  
 (PROFINET)  
 (SNMP Agent)  
 (Serial)  
 (Ethernet)

Do you have an your customer protocol?

See the following links:

[www.adfweb.com?Product=HD67003](http://www.adfweb.com?Product=HD67003)

Do you need to choose a device? do you want help?

Ask it to the following link:

[www.adfweb.com?Cmd=helpme](http://www.adfweb.com?Cmd=helpme)



User Manual

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**UPDATED DOCUMENTATION:**

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

- ✚ Updated
- ✚ Related to the product you own

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

With this “Document Code” go to web page [www.adfweb.com/download/](http://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	13/03/2020	Nv	All	First release version

**WARNING:**

ADFweb.com reserves the right to change information in this manual about our product without warning.  
ADFweb.com is not responsible for any error this manual may contain.

**TRADEMARKS:**

All trademarks mentioned in this document belong to their respective owners.

**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:



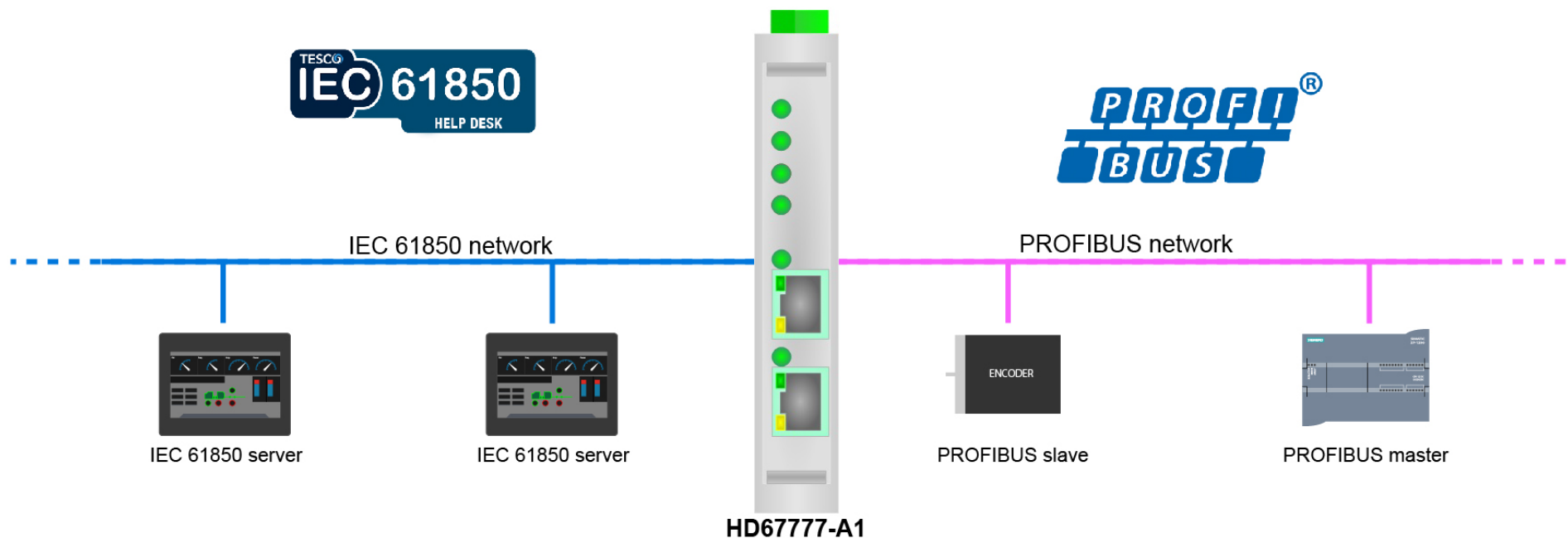
This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

**CE CONFORMITY**

The declaration is made by our company. You can send an email to [support@adfweb.com](mailto:support@adfweb.com) or give us a call if you need it.

**EXAMPLE OF CONNECTION:**

**PROFIBUS / IEC 61850 - Converter**  
HD67777-A1



**ADFweb.com**



**+39 0438 309 131**



**+39 349 440 9592**



**support@adfweb.com**

**CONNECTION SCHEME:**

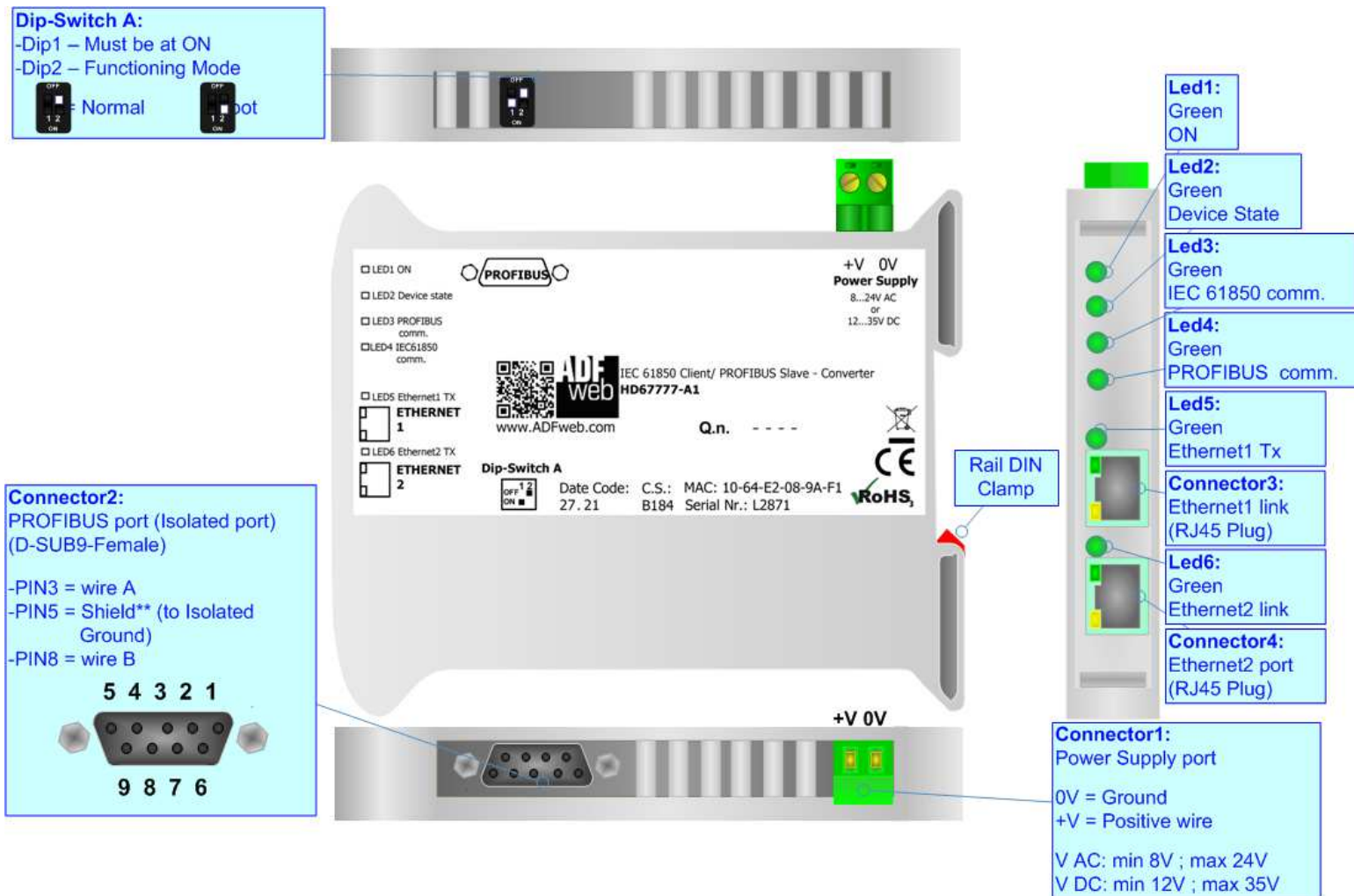


Figure 1: Connection scheme for HD67777-A1

**CHARACTERISTICS:**

The HD67777-A1 is a IEC61850 Client / PROFIBUS Slave converter.

It allows the following characteristics:

- Two-directional information between PROFIBUS and IEC61850;
- 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 SW67777 software on your PC in order to perform the following:

- Define the parameters of the IEC61850;
- Define the parameters of the PROFIBUS;
- Define IEC61850 variables to be read by the PROFIBUS master;
- Define IEC61850 variables to be written by the PROFIBUS master;
- 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
<b>HD67777-A1</b>	<b>8V</b>	<b>24V</b>	<b>12V</b>	<b>35V</b>

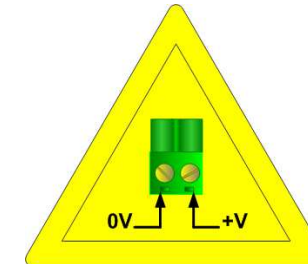
Consumption at 24V DC:

Device	W/VA
HD67777-A1	4

**Connector1:**  
Power Supply port  
0V = Ground  
+V = Positive wire  
V AC: min 8V ; max 24V  
V DC: min 12V ; max 35V



**Caution: Not reverse the polarity power**



HD67777-A1

**FUNCTION MODES:**

The device has got two functions mode depending of the position of the Dip2 of 'Dip-Switch A':

- The first, with Dip2 in Off position (factory setting), is used for the normal working of the device.
- The second, with Dip2 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).

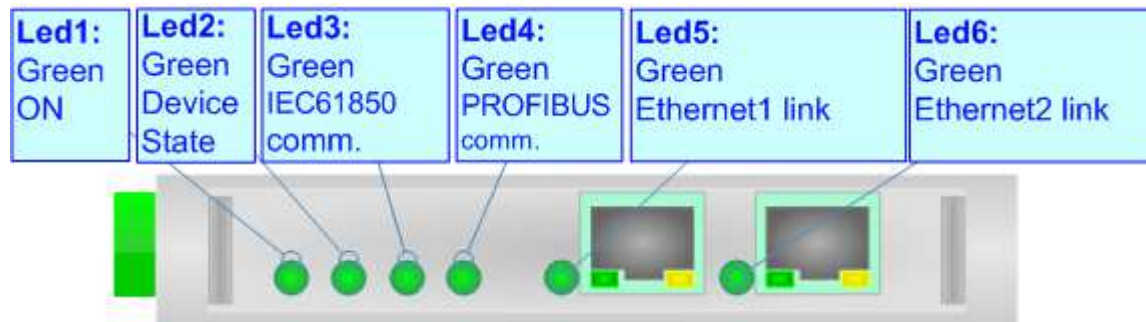




**LEDS:**

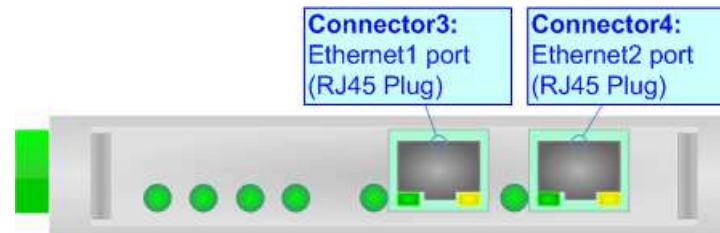
The device has got six LEDs that are used to give information of the functioning status. The various meanings of the LEDs are described in the table below.

LED	Normal Mode	Boot Mode
1: ON [supply voltage ] (green)	<b>ON:</b> Device powered <b>OFF:</b> Device not powered	<b>ON:</b> Device powered <b>OFF:</b> Device not powered
2: Device State (green)	Blinks slowly (~1Hz)	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
3: IEC61850 comm. (green)	It blinks when a IEC 61850 response is received	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
4: PROFIBUS comm. (green)	It blinks when PROFIBUS communication is running	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
5: Ethernet1 Tx (green)	Blinks when is transmitting Ethernet frames	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress
6: Ethernet2 Tx (green)	Blinks when is transmitting Ethernet frames	<b>Blinks quickly:</b> Boot state <b>Blinks very slowly (~0.5Hz):</b> update in progress



**ETHERNET:**

The Ethernet connection must be made using Connector3 or Connector4 of HD67777-A1 with at least a Category 5E cable. The maximum length of the cable should not exceed 100m. The cable has to conform to the T568 norms relative to connections in cat.5 up to 100 Mbps. To connect the device to an Hub/Switch is recommended the use of a straight cable, to connect the device to a PC/PLC/other is recommended the use of a cross cable.

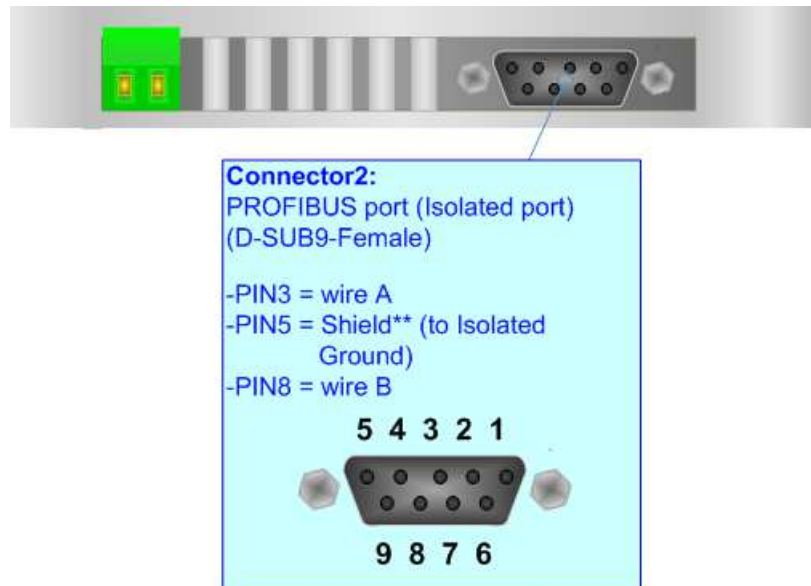


**PROFIBUS:**

The PROFIBUS uses a 9-pin D-SUB connector. The pin assignment is defined like in the right figure.

Here some codes of cables:


- ✦ Belden: p/n 183079A - Continuous Armor DataBus® ISA/SP-50 PROFIBUS Cable;



**USE OF COMPOSITOR SW67777:**

To configure the Converter, use the available software that runs with Windows called SW67777. It is downloadable on the site [www.adfweb.com](http://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 SW67777, the window below appears (Fig. 2).

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

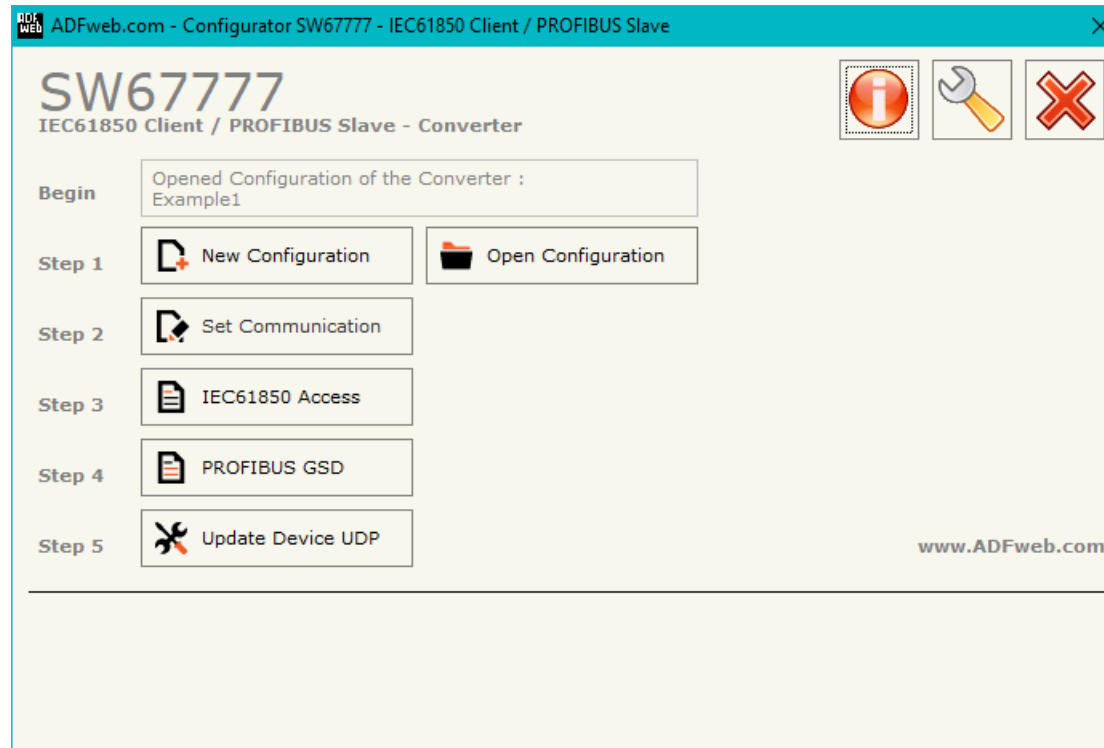
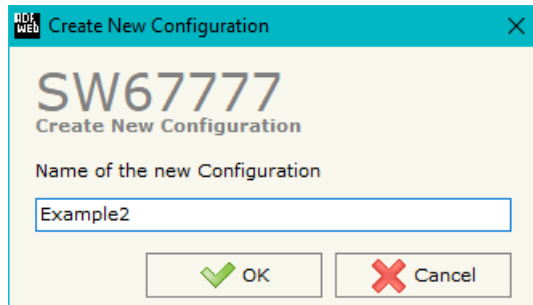


Figure 2: Main window for SW67777

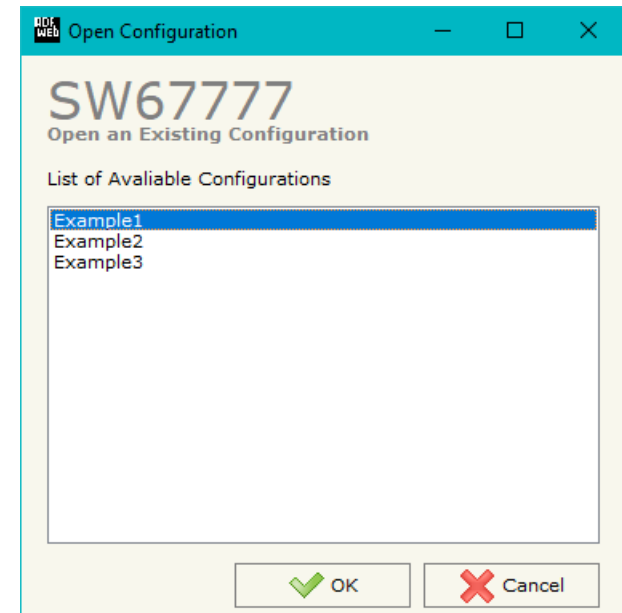
**NEW CONFIGURATION / OPEN CONFIGURATION:**

The “**New Configuration**” button creates the folder which contains the entire device’s configuration.




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

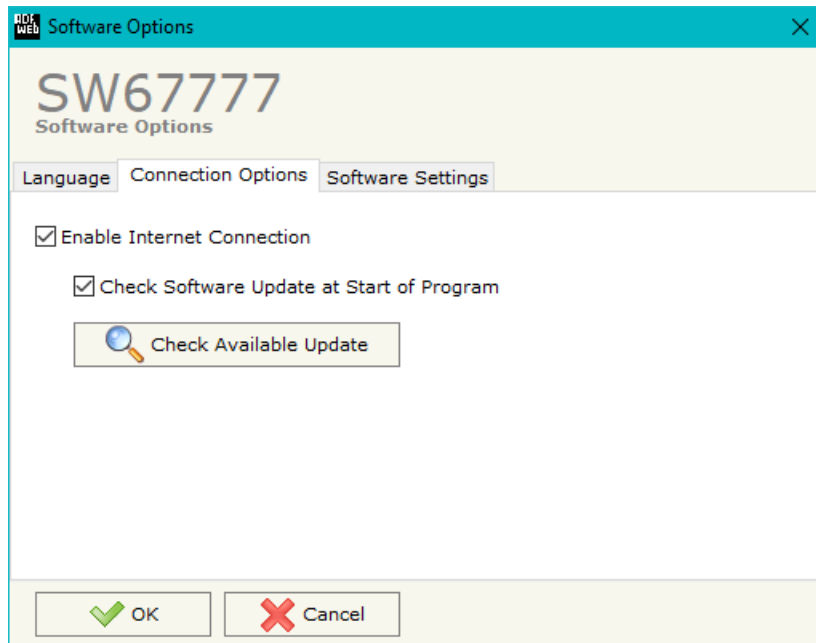
- To clone the configurations of a programmable “IEC61850 Client / PROFIBUS Slave - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button “**Open Configuration**”.



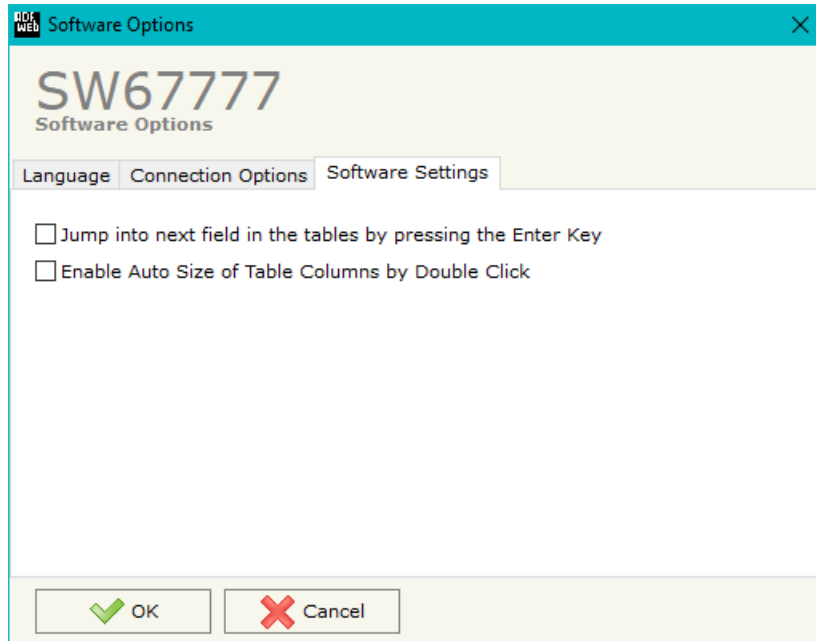
**SOFTWARE OPTIONS:**

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 SW67777 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.

## SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, IEC61850 and PROFIBUS.

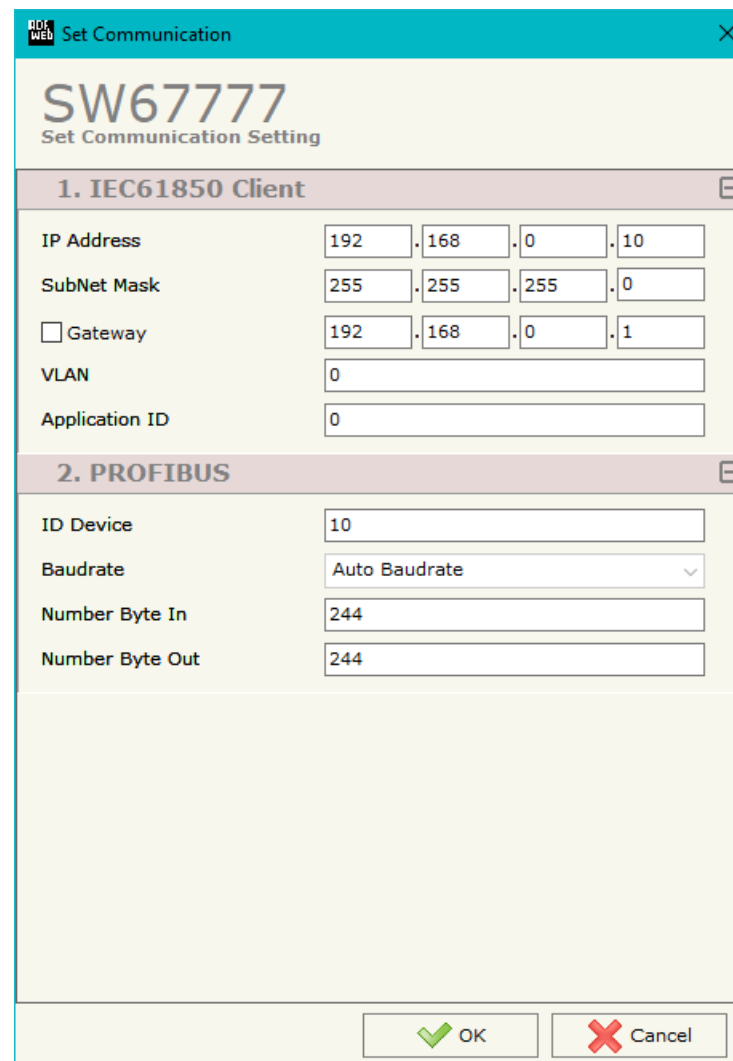
By Pressing the **"Set Communication"** button from the main window for SW67777 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "IEC61850 Client" are:

- In the fields **"IP Address"** the IP address for IEC61850 side of the converter is defined;
- In the fields **"SubNet Mask"** the SubNet Mask for IEC61850 side of the converter is defined;
- In the fields **"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 **"VLAN"** the identifier for the VLAN is defined;
- In the field **"Application ID"** the Goose identification string is defined.

The means of the fields for "PROFIBUS" are:

- In the field **"ID Device"** the address for the PROFIBUS side is defined;
- In the field **"Baudrate"** the data rate of the PROFIBUS side is defined (fixed to 'Auto Baudrate');
- In the field **"Number Bytes Input"** the number of byte from the PROFIBUS Master to the converter is defined;
- In the field **"Number Bytes Output"** the number of byte from the converter to the PROFIBUS Master is defined.



1. IEC61850 Client	
IP Address	192 . 168 . 0 . 10
SubNet Mask	255 . 255 . 255 . 0
<input type="checkbox"/> Gateway	192 . 168 . 0 . 1
VLAN	0
Application ID	0
2. PROFIBUS	
ID Device	10
Baudrate	Auto Baudrate
Number Byte In	244
Number Byte Out	244

Figure 3: "Set Communication" window



**IEC61850 ACCESS:**

By Pressing the “**IEC61850 Access**” button from the main window for SW67777 (Fig. 2) the window “IEC61850 Client Set Access” appears (Fig. 4).

This section is used to define the list of IEC61850 variables from/to which take/map the data of PROFIBUS.

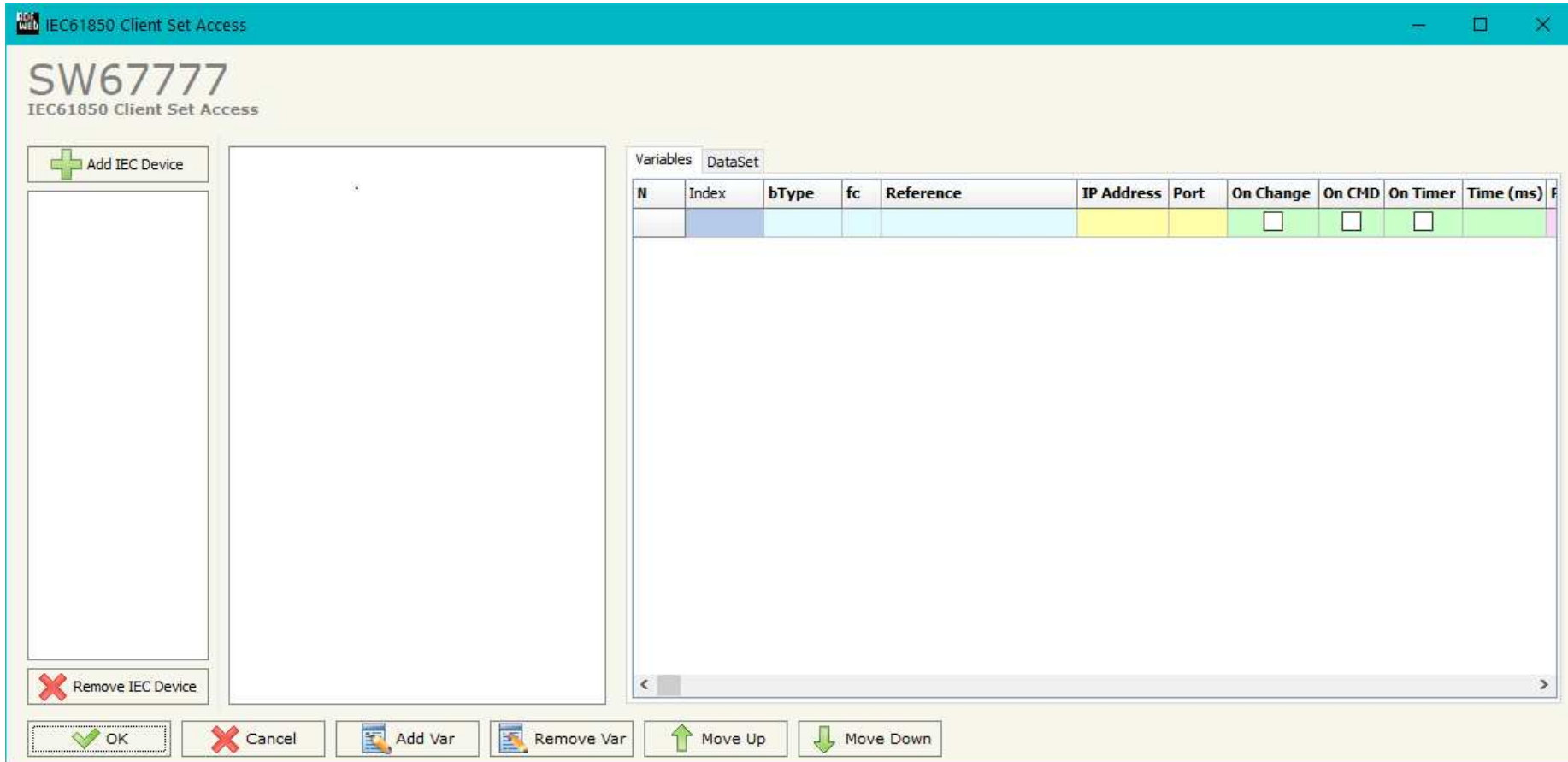


Figure 4: “IEC61850 Client Set Access” window

By clicking on **“ADD IEC Device”**, it is possible to add a new IEC61850 Server. A SCL file has to be selected (the allowed extensions are .scl, .ssd, .sed, .icd, .iid or .cid). The functional structure of the Server (Logical Devices, Logical Nodes, Data Objects and Data Attributes) will be visible (Fig. 5). The last leaves in the branches of the structure are the variables which can be added to the “Variables” section on the right (Fig. 6).

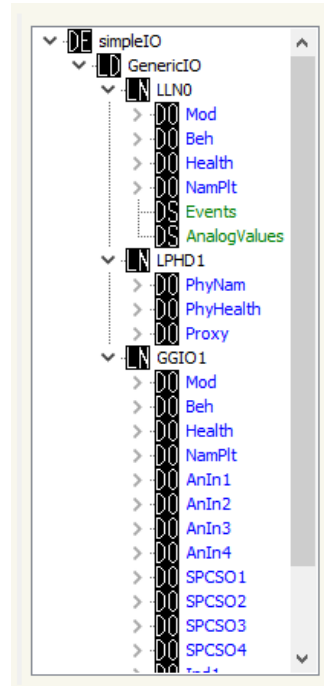


Figure 5: functional structure

Variables		DataSet											
N	Index	bType	fc	Reference	Start Byte	Num Byte	IP Address	Port	On Change	On CMD	On Timer	Time (ms)	Position
1	0	Quality	ST	ied1Inverter/LLN0.Mod.q	0	4	192.168.2.1	502	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1000	0
2	0	INT32	ST	ied1Inverter/MMXU.Health.st	0	4	192.168.2.2	503	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		4
3	1	FLOAT32	SP	SampleIEDDevice1/DSCH.Sch	0	4	192.168.2.3	504	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		8
4	1	Enum	CF	SampleIEDDevice1/MMXU.Mo	0	1	192.168.2.4	505	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2000	12
5	2	Enum	ST	TEMPLATELD0/LLN0.Beh.stVal	0	1	192.168.2.5	506	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3000	16
6	2	Enum	CF	TEMPLATELD0/MMXU.W.phsA	0	1	192.168.2.6	507	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4000	20

Figure 6: "Variables" section

The meanings of the fields are:

- In the field "**Index**" the index of the server to which the IEC61850 variable belongs is defined;
- In the field "**bType**" the data format of the IEC61850 variable is defined;
- In the field "**fc**" the Functional Constraint of the IEC61850 variable is defined;
- In the field "**Reference**" the path of the IEC61850 variable is defined;
- In the field "**Start Byte**" the starting byte of the internal memory array where taking the data is defined;
- In the field "**Num Byte**" the number of consecutive bytes to take from the internal array starting from "Start Byte" is defined;
- In the field "**IP Address**" the IP Address of the server to which the IEC61850 variable belongs is defined;
- In the field "**Port**" the Port of the server to which the IEC61850 variable belongs is defined;

- If the field "**On Change**" is checked, the IEC61850 variable is sent when the data on PROFIBUS changes the value (only in write);
- If the field "**On CMD**" is checked, the IEC61850 variable is sent when a PROFIBUS request is received (only in write);
- If the field "**On Timer**" is checked, the IEC61850 variable is sent/read cyclically;
- In the field "**Time (ms)**" the delay in ms between two readings/writings of the variable is defined (if "On Timer" is checked);
- In the field "**Position**" the starting byte of the internal memory arrays where saving/getting the value is defined;
- In the field "**Start Bit**" the starting bit of the byte of the field "Position" is defined (only for BOOLEAN data);
- In the field "**R/W**" the access type of the IEC61850 variable is defined;
- In the field "**Conversion**" the type of conversion of the value is defined (only for FLOAT32/FLOAT64 data);
- In the field "**Molt Fact**" the multiplication factor for the conversion is defined (if "Conversion" is defined as "ItoF/FtoI");
- In the field "**Mnemonic**" a description of the variable is defined.

**Note:**

Not all variables can be written. It depends on their Functional Constraints (fc).

If they are available in the functional structure, it is also possible to add Datasets (DS) to "DataSet" section (Fig. 7).

Variables		DataSet						
N	Index	Reference	Goose Name	En. Goose	IP Address	Port	Time (ms)	Mnemonic
1	0	simpleIOGenericIO/LLN0.Events	gcbEvents	<input type="checkbox"/>	192.168.2.37	103	5000	

N	bType	Reference	Position	Start Bit	Conversion	Mult Fact	Mnemonic
1	BOOLEAN	simpleIOGenericIO/GGIO1.SPCSO1.stVal	10	0	None	0	
2	BOOLEAN	simpleIOGenericIO/GGIO1.SPCSO2.stVal	10	1	None	0	
3	BOOLEAN	simpleIOGenericIO/GGIO1.SPCSO3.stVal	10	2	None	0	
4	BOOLEAN	simpleIOGenericIO/GGIO1.SPCSO4.stVal	10	3	None	0	

Figure 7: "DataSet" section

In the upper part, there are all the inserted Datasets. The meanings of the fields are:

- In the field "**Index**" the index of the server to which the IEC61850 Dataset belongs is defined;
- In the field "**Reference**" the path of the IEC61850 Dataset is defined;
- In the field "**Goose Name**" the Goose Name of the IEC61850 Dataset is defined (if "En. Goose" is checked);
- If the field "**En. Goose**" is checked, the Dataset is received as a Goose message;
- In the field "**IP Address**" the IP Address of the server to which the Dataset belongs is defined (if "En. Goose" is unchecked);
- In the field "**Port**" the Port of the server to which the Dataset belongs is defined (if "En. Goose" is unchecked);
- In the field "**Time (ms)**" the delay in ms between two readings of the Dataset is defined (if "En. Goose" is unchecked);
- In the field "**Mnemonic**" a description of the Dataset is defined.

In the lower part, it is possible to see the variables which belong to the selected Dataset. The meanings of the fields are:

- In the field "**bType**" the data format of the IEC61850 variable is defined;
- In the field "**Reference**" the path of the IEC61850 variable is defined;
- In the field "**Position**" the starting byte of the internal memory arrays where saving/getting the value is defined;
- In the field "**Start Bit**" the starting bit of the byte of the field "Position" is defined (only for BOOLEAN data);
- In the field "**Conversion**" the type of conversion of the value is defined (only for FLOAT32/FLOAT64 data);
- In the field "**Molt Fact**" the multiplication factor for the conversion is defined (if "Conversion" is defined as "ItoF/FtoI");
- In the field "**Mnemonic**" a description of the variable is defined.



Note:

The variables of a IEC61850 Dataset can only be read.

### PROFIBUS GSD:

By pressing the "**PROFIBUS GSD**" button it is possible to save the GSD file for the PROFIBUS side. With this feature you can save the configuration of the converter of the PROFIBUS side.



Note:

When you import the .gsd file on your Master PROFIBUS it is necessary to add all the modules that are present inside it.

## 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 Dip2 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 Dip2 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.

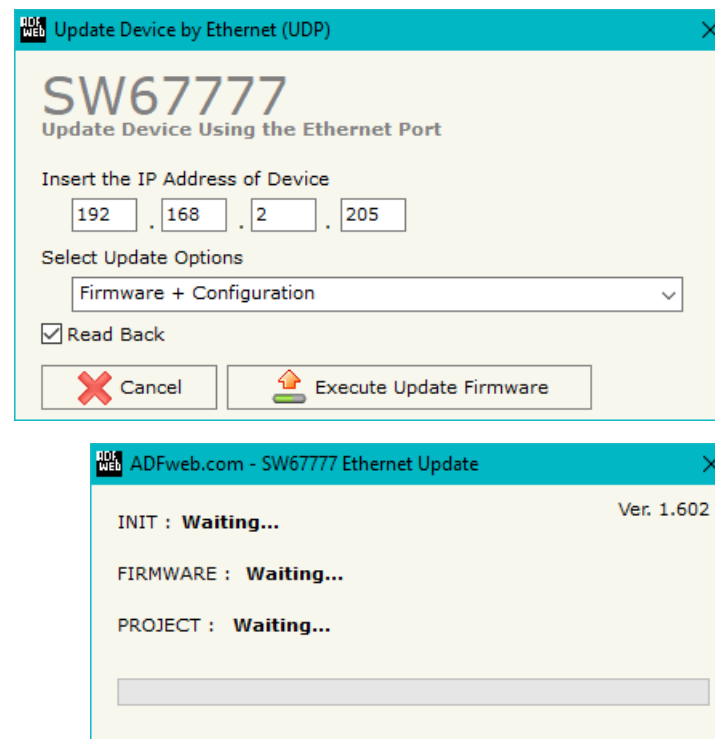


Figure 8: "Update device" windows



**Note:**

When you receive the device, for the first time, you also have to update the Firmware in the HD67777 device.



**Warning:**

If Fig. 9 appears when you try to do the Update try these points before seeking assistance:

- 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.

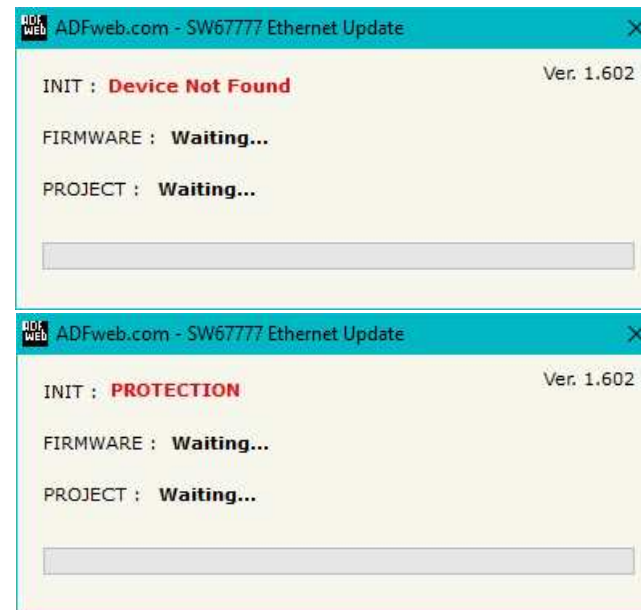


Figure 9: "Error" window

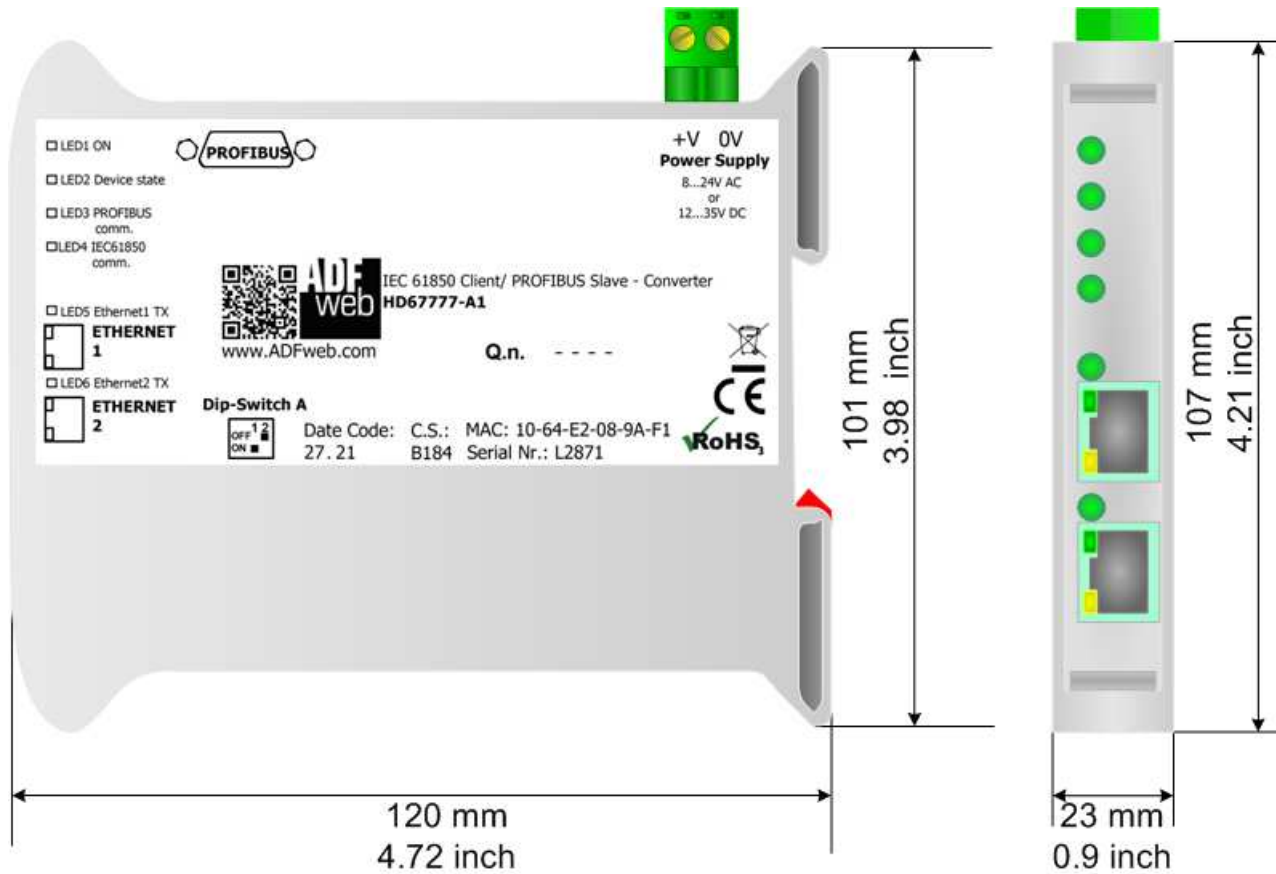


**Warning:**

In the case of HD67777 you have to use the software "SW67777": [www.adfweb.com/download/filefold/SW67777.zip](http://www.adfweb.com/download/filefold/SW67777.zip).



**MECHANICAL DIMENSIONS:**



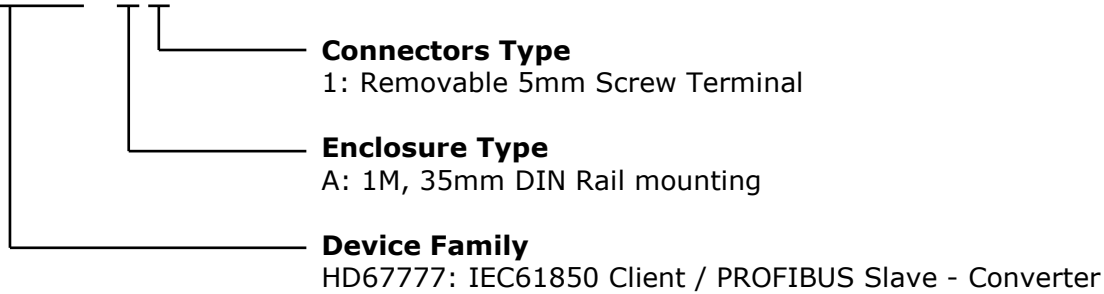
Housing: PVC  
Weight: 200g (Approx)

Figure 10: Mechanical dimensions scheme for HD67777-A1

**ORDERING INFORMATIONS:**

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

**HD67777 - A 1**



Order Code: **HD67777-A1** - IEC61850 Client / PROFIBUS Slave - Converter

**ACCESSORIES:**

Order Code: **AC34011** - Rail DIN - Power Supply 220/240V AC 50/60Hz – 12 V DC

Order Code: **AC34012** - 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.

### **WARRANTIES AND TECHNICAL SUPPORT:**

For fast and easy technical support for your ADFweb.com SRL products, consult our internet support at [www.adfweb.com](http://www.adfweb.com). Otherwise contact us at the address [support@adfweb.com](mailto: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](http://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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