

Industrial Electronic Devices

# User Manual IEC 61850 Server / PROFINET Master

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# User Manual

Revision 1.001 English

# IEC 61850 Server / PROFINET Master -Converter

(Order Code: HD67B82-A1)

For Website information: www.adfweb.com/?Product=HD67B82

For Price information: www.adfweb.com/?Price=HD67B82-A1

# **Benefits and Main Features:**

- Triple electrical isolation
- Power Supply 18...35V DC and 8...24 V AC
- Temperature range: -40°C/+85°C (-40°F/+185°F)



User Manual

For others PROFINET Master devices, see also the following links:

#### PROFINET Master from/to ...

```
www.adfweb.com?Product=HD67983
www.adfweb.com?Product=HD67B45
www.adfweb.com?Product=HD67B70
www.adfweb.com?Product=HD67B71
www.adfweb.com?Product=HD67B72
www.adfweb.com?Product=HD67B73
www.adfweb.com?Product=HD67B74
www.adfweb.com?Product=HD67B75
www.adfweb.com?Product=HD67B76
www.adfweb.com?Product=HD67B77
www.adfweb.com?Product=HD67B78
www.adfweb.com?Product=HD67B79
www.adfweb.com?Product=HD67B80
www.adfweb.com?Product=HD67B81
www.adfweb.com?Product=HD67B84
www.adfweb.com?Product=HD67D32
www.adfweb.com?Product=HD67E22
www.adfweb.com?Product=HD67F32
```

(IO-Link Slave) (OPC UA Server) (Serial) (Modbus Slave) (PROFIBUS Slave) (CAN) (CANopen) (DeviceNet Slave) (Modbus TCP Slave) (SNMP Agent) (EtherNet/IP Slave) (KNX) (MOTT) (BACnet Slave) (Ethernet) (LoRaWAN) (EtherCAT Slave) (LoRaWAN Gateway)

Do you have an your customer protocol? See the following links: www.adfweb.com?Product=HD67003

Do you need to choose a device? do you want help? Ask it to the following link: <a href="http://www.adfweb.com?Cmd=helpme">www.adfweb.com?Cmd=helpme</a>



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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 <u>www.adfweb.com/download/</u> 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	Ff	All	First release version
1.001	18/12/2024	Ln	All	New design

#### WARNING:

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

#### **TRADEMARKS:**

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#### **SECURITY ALERT:**

#### **GENERAL INFORMATION**

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

#### **INTENDED USE**

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

#### QUALIFIED PERSONNEL

The device can be used only by qualified personnel, strictly in accordance with the specifications.

Qualified personnel are persons who are familiar with the installation, assembly, commissioning and operation of this equipment and who have appropriate qualifications for their job.

#### **RESIDUAL RISKS**

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

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

#### **CE** CONFORMITY

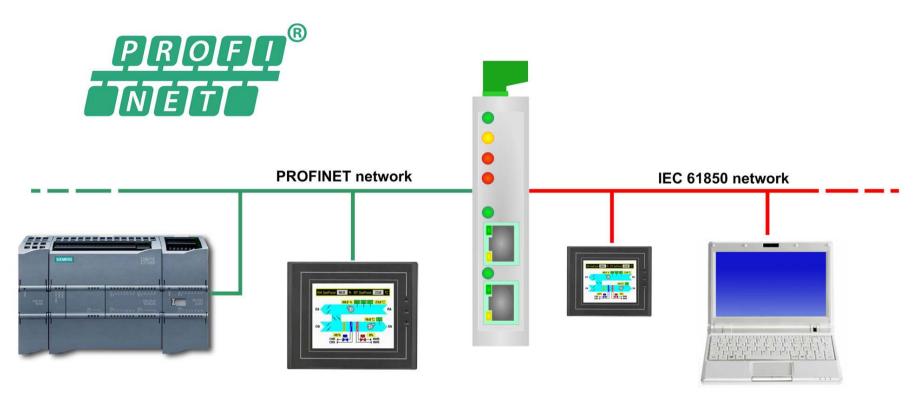
The declaration is made by our company. You can send an email to <u>support@adfweb.com</u> or give us a call if you need it.



**EXAMPLE OF CONNECTION:** 

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HD67B82-A1

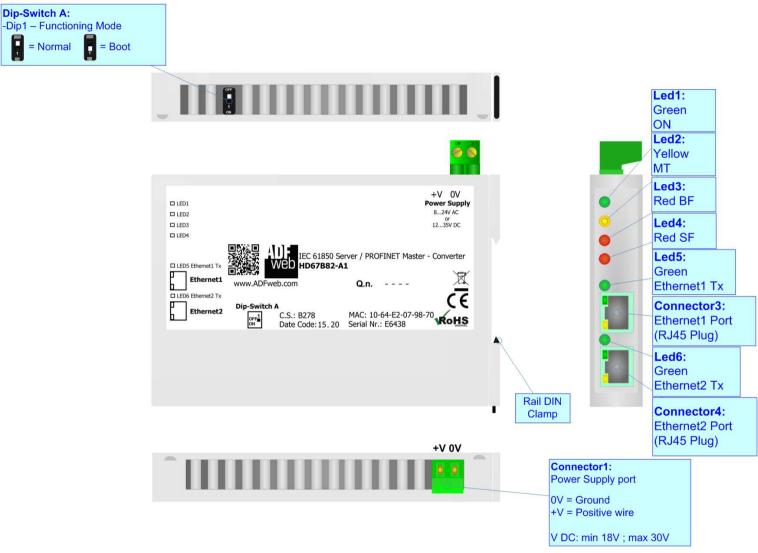


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# **CONNECTION SCHEME:**







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### **CHARACTERISTICS:**

The HD67B82-A1 is a IEC 61850 Server / PROFINET Master converter.

It allows the following characteristics:

- ✤ Up to 1500 bytes in reading and 1500 bytes in writing;
- ✤ Two-directional information between PROFINET and IEC 61850;
- 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 SW67B82 software on your PC in order to perform the following:

- Define the parameter of the IEC 61850;
- Define the parameter of the PROFINET;
- Define the list of PROFINET slaves connected to the converter;
- Define the list of IEC 61850 variables available for reading and writing;
- Update the device.



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## **POWER SUPPLY:**

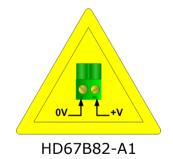
The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

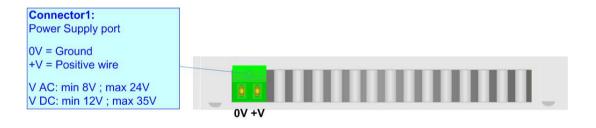
	VAC	$\sim$	VDC	
	Vmin	Vmax	Vmin	Vmax
HD67B82-A1	8V	24V	12V	35V

Consumption at 24V DC:

Device	W/VA
HD67B82-A1	4

# Caution: Not reverse the polarity power







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## **FUNCTION MODES:**

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

- ✤ The first, with Dip1 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).





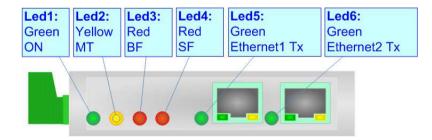
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# LEDS:

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 ]	ON: Device powered	ON: Device powered
(green)	OFF: Device not powered	OFF: Device not powered
2: MT [maintenance display]	<b>ON:</b> Maintenance are present	Blinks quickly: Boot state
(yellow)	<b>OFF:</b> No maintenance are present	Blinks very slowly (~0.5Hz): update in progress
3: BF [bus fault] (red)	<ul> <li>ON: The Ethernet connection is defective; the IP address exists several times in the network; the own NameOfStation exists several times in the network; no IP address has been set</li> <li>Flashing: At least one configured AR is no longer in the data exchange</li> </ul>	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
	OFF: No errors are present	
4: SF [group error] (red)	<b>ON:</b> At least one AR is not in the data exchange	Blinks quickly: Boot state
	<b>OFF:</b> No errors are present	Blinks very slowly (~0.5Hz): update in progress
5: Ethernet1 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks quickly: Boot state
	blinks when is transmitting Ethemet Traines	Blinks very slowly (~0.5Hz): update in progress
	Dinke when is transmitting Ethernet, frames	Blinks quickly: Boot state
6: Ethernet2 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks very slowly (~0.5Hz): update in progress

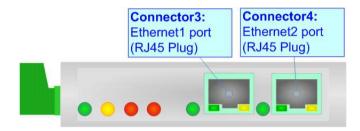




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# ETHERNET:

The Ethernet connection must be made using Connector3 and Connector4 of HD67B82-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.





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### **USE OF COMPOSITOR SW67B82:**

To configure the Converter, use the available software that runs with Windows called SW67B82. It is downloadable on the site <u>www.adfweb.com</u> 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 SW67B82, the window below appears (Fig. 2).



It is necessary to have installed .Net Framework 4.

<b>썂</b> ADFweb.	com - Configurator SW67B82 - IEC618	850 Server / PROFINET Master	×
	67B82 0 Server / PROFINET Master -	Converter	
Begin	Opened Configuration of the Co Example1	onverter :	
Step 1	New Configuration	Open Configuration	
Step 2	Set Communication		
Step 3	PROFINET Access		
Step 4	IEC61850 Access		
Step 5	TLS Known Certificate		
Step 6	X Update Device UDP		www.ADFweb.com

Figure 2: Main window for SW67B82

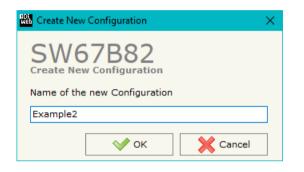


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### **NEW CONFIGURATION / OPEN CONFIGURATION:**

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



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

- To clone the configurations of a programmable "IEC 61850 Server / PROFINET 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	-		×
SW67B82 Open an Existing Configuration List of Avaliable Configurations			
Example1			
Example2 Example3			
🗸 ок		Cance	el



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## **SOFTWARE OPTIONS:**

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

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

Software Options	$\times$
SW67B82 Software Options	
Language Connection Options Software Settings	
Enable Internet Connection     Check Software Update at Start of Program     Check Available Update	
OK Cancel	



In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website. Checking the option "Check Software Update at Start of Program", the SW67B82 check automatically if there are updatings when it is launched.



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Software Options	×
SW67B82	
Language Connection Options Software Setting	js
☐ Jump into next field in the tables by pressing ☐ Enable Auto Size of Table Columns by Double	-
ок <b>Х</b> Сапсеl	

In the section "Software Settings", it is possible to enable/disable some keyboard's commands for an easier navigation inside the tables contained in the different sections of the software.



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### **SET COMMUNICATION:**

This section define the fundamental communication parameters of two buses, IEC 61850 and PROFINET.

By Pressing the "**Set Communication**" button from the main window for SW67B82 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "PROFINET Master" are:

- In the fields "IP Address" the IP address for PROFINET side of the converter is defined;
- In the fields "SubNet Mask" the SubNet Mask for PROFINET 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 "Name of Station" the name of the PROFINET node is defined.

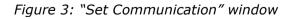
The means of the fields for "IEC61850 Server" are:

- In the field "Port" the port number used for IEC 61850 communication is defined;
- If the field "Password" the password used for accessing to IEC 61850 variables is defined.

The means of the fields for "TLS (Transport Layer Security) Server" are:

- If the field "Enable TLS" is checked, the TLS protocol for secure connection is enabled;
- In the field "Key" the key for the authentication is defined;
- In the field "Key Password" the password for decrypting the key is defined;
- In the field "Server Certificate" the certificate for the server is defined;
- In the field "Root Certificate" the root of the server is defined;
- If the field "Enable Only Known Certificates" is checked, the converter will accept just connection from known Clients (defined in the section "TLS Known Certificate").

1. PROFINET Ma		
	192 . 168 . 0 . 5	
SubNet Mask	255 . 255 . 255 . 0	
Gateway	192 . 168 . 0 . 1	
Name of Station	devicename1	
2. IEC61850 Se	rver	6
Port	102	
Password		
3. TLS (Transpo	rt Layer Security) Server	6
Enable TLS		
Кеу	key	
Key Password	keypassword	
Server Certificate	lalala	
Root Certificate	dadada	
Enable Only Known C	ertificates	





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#### **PROFINET ACCESS:**

By Pressing the "**PROFINET Access**" button from the main window for SW67B82 (Fig. 2) the window "Definition of PROFINET Devices Present in Network" appears (Fig. 4).

This section is used to define the list of the PROFINET slaves to read/write with the PROFINET Master. It is possible to add the PROFINET slaves from the hardware catalog. If a new device will be connected, it is possible to instal the GSDML file.

	NET Network Access						×
	67B82	Devices Present in Network					
Device #	Vendor	Product Family	Name	Name of GSDML	Mnemonic		
0	ADFweb.com	Gateway	HD67661	GSDML-V2.31-ADFweb-HD67661_HD67			
	Add From Catalog	Delete Device	odules				
Device P	Properties						
Name	of Station	devicename1					
IP Add	dress	192.168.0.20					
□ Aut	tomatic new sessio	n when StationProblemIndicator is active					
	O Timing						
	e Time [ms]	1				 	~
Answe	er TimeOut	3	~ 3				
[		•				 	
	🔪 ок	Cancel					

Figure 4: "Definition of PROFINET Devices Present in Network" window



The means of the fields below are:

- ✤ In the field "Name of Station" is checked, the name of the PROFINET slave is defined;
- ✤ In the field "IP Address" the IP Address of the PROFINET slave is defined;
- If the field "Automatic new session when StationProblemIndicator is Active" is checked, the converter opens a new communication session when an error is present in the slave station;
- In the field "Update Time [ms]" the delay used for IO communication is defined;
- ✤ In the field "Answer TimeOut" the allowed number of cycles without response from the slave is defined.

### Warning:

The data from/to the slaves are mapped consecutively into the IN/OUT PROFINET arrays, following the order with which they are defined.



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By clicking on "**Modules**" button, it is possible to import the modules for the selected PROFINET slave device. The window "Definition Module and/or Submodules of PROFINET Device" appears (Fig. 5). In the main table it is possible to import the Modules of the PROFINET device in use. In the properties below, it is possible to set the parameters of the slave. These options depends on the slave in use, refer to the manual of the PROFINET device.

	Subslot	Module	Module Desc	Submodule	Submodule	Map Only Data	Different Word	Input	Output	Mnemonic	
	1 - Subslot	EthernetIPMaster	EthernetIP Adapter	Submodule V1	Description			0	0		
	32768 -	EthernetIPMaster	EthernetIP Adapter	I				0	0		
	32769 -	EthernetIPMaster	EthernetIP Adapter	P1				0	0		
	32770 -	EthernetIPMaster	EthernetIP Adapter	P2				0	0		
	1 - Subslot	II ALGERIES	device EthernetIPSlave1	Module	device			15	10		
	1 - Subslot	Module	device EthernetIPSlave2	Module	device			0	5		
										-	
aram	ete <mark>r N</mark> ame		Value	Allow Values	Default Value	e M	nemonic				
anale :	¢										
eaction	to CPU STOP	, ,	Output substitute value	02	2						

Figure 5: "Definition Module and/or Submodules of PROFINET Device" window

The means of the checkboxes inside the table are:

- If the field "Map Only Data" is checked, only the data of the modules are mapped into the IEC 61850 map. Otherwise, for each module there will be the status of IN and OUT areas too (1 byte);
- ✤ If the field "Different Word" is checked, the data of the different modules are mapped in different and consecutive words.



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# IEC 61850 ACCESS:

By Pressing the **"IEC 61850 Access**" button from the main window for SW67B82 (Fig. 2) the window "Set Variables Access for IEC 61850" appears (Fig. 6).

This section is used to define the IEC 61850 variables accessible from serial side.

		7B82 es Access for IEC61850											
J	Enable		Туре	Length	Read Only	Position	Start Bit	Conversion	Molt. Factor	Swap	Swap Word	Mnemonic	
1		First	Int	4		0	0	Int to Float	None				
2		Second	Float	4		0	0	None	None				
3		Third	Digital (Bit)	1		10	0	None	None				
4													
5													
6													

Figure 6: "IEC 61850 Access" window

The means of the fields are:

- If the field "Enable" is checked, the IEC 61850 variable is enabled;
- In the field "Name" the name of the IEC 61850 variable is defined;
- In the field "Type" the data format of the IEC 61850 variable is defined;
- ✤ If the field "Read Only" is checked, the IEC 61850 variable is just in reading. Otherwise, it is writeable too;
- In the field "Position" the starting byte of the PROFINET arrays from/to which taking/mapping the data is defined;
- In the field "Start Bit" the starting bit of the byte of the field "Position" is defined;
- In the field "Conversion" the conversion of the data is defined. This option is used to convert the data format between PROFINET and IEC 61850;
- In the field "Molt. Factor" a multiplicative factor of the value is defined;
- If the field "Swap" is checked, the bytes' order is swapped;
- If the field "Swap Word" is checked, the words' order is swapped;
- In the field "Mnemonic" a description of the variable is defined.



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# TLS KNOWN CERTIFICATE:

Web D	efinition tl	ne list of Known Certificates	— (	⊐ ×
S <sub>Def</sub>	W6	7B82 he list of Known Certificates		
N	Enable	Certificate	Mnemonic	^
1		First Certificate bla bla bla		
2				
3				
4				~
	V ok	Cancel Scancel Copy Row	Paste Row	

Figure 7: "TLS Known Certificate" window

By pressing the "**TLS Known Certificate**" button from the Main Window of SW67B82 (Fig. 2) the "Definition the list of Known Certificates" window appears (Fig. 7).

The data of the columns have the following meanings:

- If the field "Enable" is checked, the TLS certificate is allowed;
- In the field "Certificate" the certificate of the Client is defined;
- ✤ In the field "Mnemonic" a description is defined.



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#### **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.

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

Update Device by Ethernet (UDP)	×				
SW67B82 Update Device Using the Ethernet Port					
Insert the IP Address of Device					
Select Update Options					
Firmware + Configuration ~					
✓ Read Back					
	7				
Cancel 🔄 Execute Update Firmware					
ADFweb.com - SW67B82 Ethernet Update	×				
	Ver. 1.602				
ADFweb.com - SW67B82 Ethernet Update	Ver. 1.602				
ADFweb.com - SW67B82 Ethernet Update	Ver. 1.602				
ADFweb.com - SW67B82 Ethernet Update INIT : Waiting FIRMWARE : Waiting	× Ver. 1.602				
ADFweb.com - SW67B82 Ethernet Update INIT : Waiting FIRMWARE : Waiting	X Ver. 1.602				

Figure 8: "Update device" windows



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# / Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67B82 device.

# Warning:

If Fig. 9 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, 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.

ADFweb.com - SW67B82 Ethernet Update	×
INIT : Device Not Found	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	
ADFweb.com - SW67B82 Ethernet Update	×
ADFweb.com - SW67B82 Ethernet Update	× Ver. 1.602
_	× Ver. 1.602
INIT : PROTECTION	X Ver. 1.602
INIT : <b>PROTECTION</b> FIRMWARE : <b>Waiting</b>	X Ver. 1.602

Figure 9: "Error" window

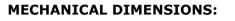
# Warning:

In the case of HD67B82 you have to use the software "SW67B82": <u>www.adfweb.com\download\filefold\SW67B82.zip</u>.

VCD Industrial Electronic Devices

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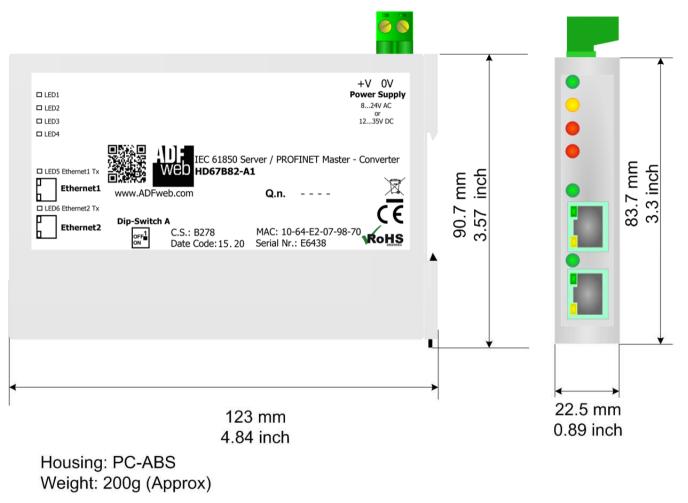


Figure 10: Mechanical dimensions scheme for HD67B82-A1



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### **ORDERING INFORMATIONS:**

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



#### ACCESSORIES:

Order Code: AC34011	-	35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V DC
Order Code: AC34012	-	35mm Rail DIN - Power Supply 220/240V AC 50/60Hz – 24 V DC



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### **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.I. 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.I. 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

**C** 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 <u>www.adfweb.com</u>. 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 <u>www.adfweb.com</u>. 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.

