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User Manual

Revision 1.002 Enalish

Modbus TCP Master / KNX - Converter

(Order Code: HD67814-KNX-B2)

for Website information: www.adfweb.com?Product=HD67814

for Price information: www.adfweb.com?Price=HD67814-KNX-B2

Benefits and Main Features:

- Very easy to configure \oplus
- Electrical isolation ÷
- Temperature range: -40°C/85°C (-40°F/185°F) Ð



User Manual

For others KNX products, see also the following links:

Converter KNX to

www.adfweb.com?Product=HD67801 www.adfweb.com?Product=HD67802 www.adfweb.com?Product=HD67803 www.adfweb.com?Product=HD67804 www.adfweb.com?Product=HD67807 www.adfweb.com?Product=HD67808 www.adfweb.com?Product=HD67809 www.adfweb.com?Product=HD67810 www.adfweb.com?Product=HD67811 www.adfweb.com?Product=HD67812 www.adfweb.com?Product=HD67813 www.adfweb.com?Product=HD67815 www.adfweb.com?Product=HD67818 www.adfweb.com?Product=HD67820 www.adfweb.com?Product=HD67821

(BACnet Master) (BACnet Slave) (CAN) (CANopen) (EtherNet/IP) (DeviceNet Master) (DeviceNet Slave) (J1939) (M-Bus Master/wM-Bus) (Modbus Master) (Modbus Slave) (Modbus TCP Slave) (PROFINET Slave) (SNMP) (DMX)

Do you have an your customer protocol? www.adfweb.com?Product=HD67003

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



ADF web

Industrial Electronic Devices

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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	20/04/2015	Ff	All	First Release
1.001	11/09/2015	Ff	All	Revision
1.002	26/02/2016	Nt	All	Revision

WARNING:

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

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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.

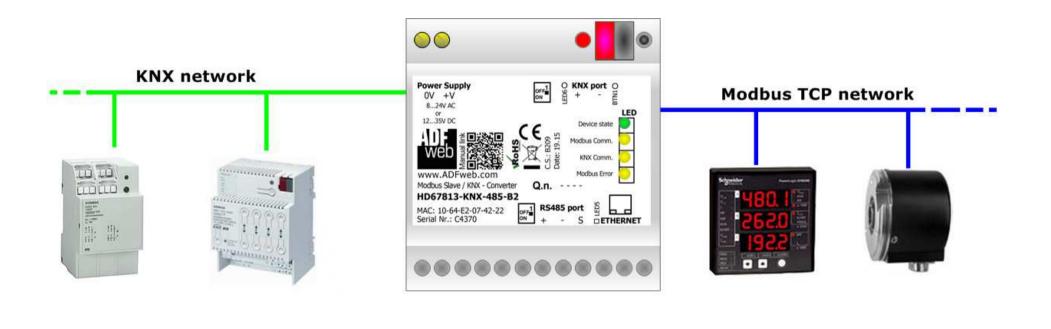
CE CONFORMITY

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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CONNECTION SCHEME:

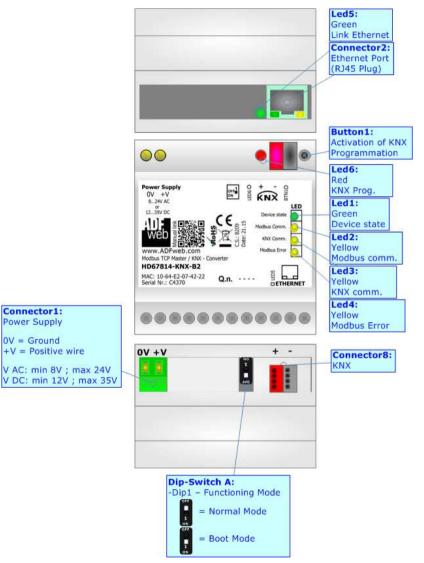


Figure 1: Connection scheme for HD67814-KNX-B2



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CHARACTERISTICS:

The HD67814 is a Modbus TCP Master / KNX Converter.

It has the following characteristics:

- ✤ Up to 1440 bytes in reading and 1440 bytes in writing;
- + Triple isolation between KNX Power Supply, KNX Ethernet, Power Supply Ethernet.
- Two-directional information between KNX bus and Modbus TCP bus;
- 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 SW67814 software on your PC in order to perform the following:

- Define the parameter of Modbus TCP line;
- Define the parameter of KNX line;
- Define the KNX messages that the Converter can accept;
- Define the KNX frames that the Converter sends trough the KNX line;
- Define the map of KNX byte that must be written in the Modbus TCP side;
- Define the map of which Modbus TCP registers must be written in KNX messages;
- Update the device.



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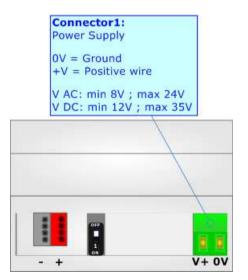
POWER SUPPLY:

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

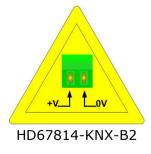
VAC ~		VDC		
Vmin	Vmax	Vmin Vmax		
8V	24V	12V	35V	

Consumption at 24V DC:

Device	Consumption [W/VA]		
HD67814-KNX-B2	3.5		



Caution: Not reverse the polarity power





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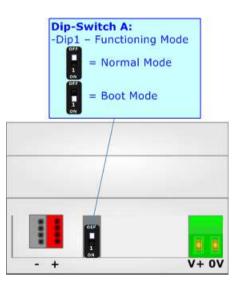
FUNCTION MODES:

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

- ✤ The first, with 'Dip1 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 upload the Project and/or Firmware.

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

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

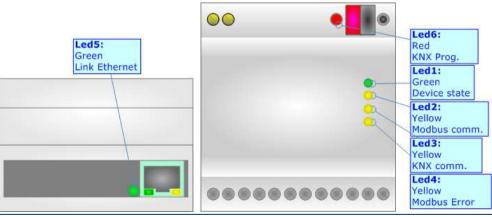




LEDS:

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)	ON: Device powered OFF: Device not powered
2: Modbus communication (yellow)	Blinks when Modbus TCP frame is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: KNX communication (yellow)	Blinks when KNX frame is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Modbus error (yellow)	ON: At least one Modbus TCP request hasn't a correct responseOFF: No errors are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Ethernet Link (green)	ON: Ethernet cable connected OFF: Ethernet cable disconnected	ON: Ethernet cable connected OFF: Ethernet cable disconnected
6: KNX Programmation (red)	ON: KNX Programmation activated OFF: KNX Programmation not activated	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress





KNX:

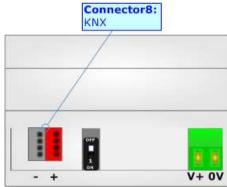
KNX is the standard that allows the automated and decentralized management of the technologic plans of a big typology of structures: commercial buildings, factories, houses, public locals, schools and so on. KNX can be used in all the applications and functions for the building automations: from lighting to control dampers, to the security, to the heating monitoring, to the conditioning, to the hydric control and alarms, to energy management and so on.

Characteristics	Description TP1-256
Medium	Shielded Twisted Pair
Topology	Linear, Star, Tree or mixed
Baudrate	9600 bps
Device supplying	Normal: bus powered devices Optional: remote powered devices
Device power consumption	3 mA- 12 mA
Power Supply Unit (PSU)	DC 30 V
Number of PSU's per physical Segment	Max. 2
Number of connectable devices per physical Segment	Max. 256
Number of addressable devices per physical Segment	Max. 255
Total cable length per physical Segment	Max. 1000 m
Distance between two devices	Max. 700 m
	(*) Taken from KNX specifications

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User Manual	Modbus	TCP	Master	/	KNX
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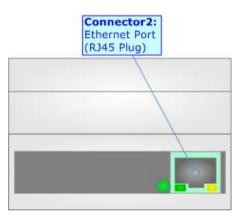


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ETHERNET:

The Ethernet port is used for the Modbus TCP communication and for programming the device.

The Ethernet connection must be made using Connector2 of HD67814-KNX-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 is recommended the use of a cross cable.





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USE OF COMPOSITOR SW67814:

To configure the Converter, use the available software that runs with Windows called SW67814. 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; 32/64bit).

When launching the SW67814, the window below appears (Fig. 2).

Mote:

It is necessary to have installed .Net Framework 4.

ADF. Web	ADFweb.com - Configurator SW67814 - KONN	NEX / Modbus TCP Master
	67814 Modbus TCP Master - Converter	
Begin	Opened Configuration of the Converter : Example1	
Step 1	New Configuration	
Step 2	Set Communication	
Step 3	KNX Access	
Step 4	Set Access	
Step 5	💥 Update Device	www.ADFweb.com

Figure 2: Main window for SW67814



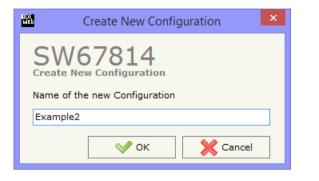
ectronic Devices

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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 "Modbus TCP Master / KNX -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".

HUE.	Open Configuration	-		×
List of Avaliable	ing Configuration			
Example1 Example2 Example3				
	✓ ок	X (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.

	Software Options	
SW67814 Software Options	s	
✓ Enable Internet Connectio	n	
✔ Check Software Upda	te at Start of Program	
Check Available	Update	
🗸 ок	Cancel	

NDF. Web	Software Options	×
	67814	
Language	Connection Options	
Selected	Language :	
#	English	
	Page 1 / 1	
	OK Cancel	
	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 SW67814 check automatically if there are updatings when it is launched.



SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, KNX and Modbus TCP.

By Pressing the "**Set Communication**" button from the main window for SW67814 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in two sections, one for the KNX and one for the Modbus TCP.

The means of the fields for "KNX" are:

- In the field "Type" the type of KNX is defined (fixd to 'KNX TP');
- In the field "ID Device" the ID of the KNX side of the converter is defined.

The means of the fields for the "Modbus TCP Master" section are:

- In the fields "IP ADDRESS" the IP address that you want to give to the Converter is defined;
- In the fields "SUBNET Mask" the SubNet Mask is defined;
- In the fields "GATEWAY" the default gateway that you want to use 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 "TimeOut (ms)" the maximum time that the device attends for the answer from the Slave interrogated is defined;
- In the field "Communication Idle Time (ms)" the minimum delay between two polls is defined.

ADF. Web	Set Con	nmunicat	tion	×
	/6781			
KNX				X
Туре	KNX TP			
ID Dev	vice 3.3.3			
Modbus	TCP Master			\mathbf{X}
IP ADI	DRESS			
192	. 168	. 0	. 5	
SUBNE	ET Mask			
255	. 255	. 255	. 0	
GAT	TEWAY			
192	. 168	. 0	. 1	
TimeO	ut (ms)	1000		
Cyclic	Delay (ms)	100		

Figure 3: "Set Communication" window

' OK

Cancel

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KNX ACCESS:

By pressing the "**KNX Access**" button from the main window for SW67814 (Fig. 2) the "KNX Access" window appears (Fig. 4).

The means of the fields are:

- If the field "Enable" is checked, the KNX message is enabled;
- In the field "Source Address" the Source Address to assign to the KNX message is defined;

WEb							KNX	Set Acc	ess								x
		7814	ŀ														
N	IX Set Acc		Dest/Group	APCI	Priority	Format	Extended	ReTest	OnCMD	OnChange	OnTimer	Poll Time	Position	Bit Mode	Length	Mnemonic	
1		5.5.2	2/3/1	Write	Low	None					~	2000	32	No	1		-
2		5.5.2	2/2/5	Write	Low	None				•	•	2000	48	No	2		
3	~																
4																	-
5																	
	V V		Cancel		Delete Row	Insert Row	Cop	y Row	Pa	ste Row							

- Figure 4: "KNX Access" window
- In the field "Dest/Group the Group address (2 level structure, 3 level structure or free address structure) or the device address is defined. In case of Group address, the levels must be separated by '/', in case of Device address, the parts of the address must be separated by `.';
- ✤ In the field "APCI" the APCI of the KNX message is defined. You can choose between the following:
 - Read: it is used to send a reading request to a KNX device;
 - o Write: it is used to send a writing request to a KNX device;
 - Specific value (edited manually).
- ✤ In the field "Priority" the Priority of the KNX message is defined. You can choose between the following:
 - System (Highest);
 - o Urgent;
 - Normal;
 - Low (Lowest).
- ✤ In the field "Format" the data format of the KNX message is defined;
- ✤ If the field "Extended" is checked, the extended format of the KNX message is used;
- ✤ If the field "ReTest" is checked, the KNX message is re-sent in case of not correct response;
- If the field "On Change" is checked, the gateway sends the KNX command when the data on Modbus change the value;
- ✤ If the field "On Timer" is checked, the gateway sends the KNX command cyclically;
- + In the field "**Poll Time**" the delay in ms between two KNX commands is defined (if "On Timer" is checked);



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- ✤ In the field "Position" insert the address of the internal array where placing the information;
- ✤ In the field "Bit Mode" insert the start bit of the first byte of the field "Position" where start to insert the data read;
- ✤ In the field "Lenght" the dimension of the KNX message is defined;
- ✤ In the field "Mnemonic" the description for the request is defined.

Note:

If the field "On change" is checked and the "Poll Time" is different from 0, the converter sends the KNX command cyclically and also when the data is changed.

<u>/ Note:</u>

If the fields "OnChange" and "OnTimer" are not checked, the converter only sniffs the bus in order to monitor the status of the KNX message.



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Start Bit Mnemonic

0

0

SET ACCESS:

By pressing the "Set Access" button from the main window for SW67814 (Fig. 2) the window "Set Access" appears.

ALE WEB

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2

This window is divided in two parts, the "Modbus Read" (Fig. 6) and the "Modbus Write " (Fig. 7). The first part "Modbus Read" is used to read the data from the Modbus TCP slaves, and make them available on KNX network. The second part "Modbus Write " is used to write the data that arrives from the KNX system into the Modbus TCP slaves.

SW67814

Modbus Read Modbus Write

-

Set Modbus TCP Master Access

✔ 192.168.2.10

192.168.2.11

Enable Slave IP Address Port Slave ID Type

502

503

2

MODBUS READ

The means of the fields are:

- If the field "Enable" is checked, the Modbus Request is enabled;
- In the field "Slave IP Address" the IP Address of the Modbus TCP device you have to read is defined;
- In the field "Port" the TCP port of the Modbus TCP device you have to read is defined;
- In the field "Slave ID" the address of the Modbus device you have to read is defined;
- TCP port of the have to read is the address of the

Holding Register

Coil Status

100

110

Set Modbus TCP Master Access

1

Address NPoint Poll Time Max Error Position

0

5000

Figure 5: "Set Access --> Modbus Read" window

- ✤ In the field "Type" insert the data type of the register you would like to read. You can choose between the following:
 - Coil Status;
 - Input Status;
 - Holding Register;
 - Input Register.
- In the field "Address" the start address of the register to be read is defined;
- In the field "NPoint" insert the number of consecutive registers to be read;
- ✤ In the field "Poll Time" insert the time to make this request;
- In the field "Max Error" is the number of errors continues that the gateway waits before suspending the poll until the next reboot. If is set to zero this function is disabled;
- In the field "Position" insert the address of the internal array where placing the information;



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- In the field "Start Bit" insert the start bit of the first byte of the field "Position" where start to insert the data read. Valid only for the "Coil Status" and "Input Status";
- ✤ If the field "Swap" is checked, the data of the Modbus registers are swapped;
- ✤ In the field "Mnemonic" the description for the request is defined.

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MODBUS WRITE

The means of the fields are:

- ✤ If the field "Enable" is checked, the Modbus Request is enabled;
- In the field "Slave IP Address" the IP Address of the Modbus TCP device you have to write is defined:
- In the field "Port" the TCP port of the Modbus TCP device you have to write is defined;
- ✤ In the field "Slave ID" the address of the Modbus device that you have to write is defined:
- + In the field "Type" insert the data type of the register you would like to write. You can choose between the following:

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2 3

4

5

- Coil Status;
- Holding Register.
- In the field "Address" the start address of the register to be written is defined;
- ✤ In the field "NPoint" insert the number of consecutive registers to be written;
- ✤ In the field "Poll Time" insert the time to make this request;
- If the field "On Change" is checked, the gateway send the Write request in Modbus when the data change the value.
- → In the field "Max Error" is the number of errors continues that the gateway waits before suspending the poll until the next reboot. If is set to zero this function is disabled;
- In the field "Position" insert the address of the internal array where read the information:
- ✤ In the field "Start Bit" insert the start bit of the first byte of the field "Position" where start to read the data to write. Valid only for the "Coil Status";
- ✤ In the field "Mnemonic" the description for the request is defined.

Note:

If you want that the converter sends the data only "On change" the "Poll Time" must be at 0.

Note:

If the field "On change" is checked and the "Poll Time" is different from 0, the converter sends the Write request cyclically and also when the data is changed.

	Set Modbus TCP Master Access										-		×		
SW67814 Set Modbus TCP Master Access adbus Read Modbus Write															
	Enable	Slave IP Address	Port	Slave ID	Туре	Address	NPoint	Poll Time	On Change	Max Error	Position	Start Bit	Mnemor	nic	^
	Enable	Slave IP Address 192.168.2.12	Port 502			Address 10	NPoint 3	Poll Time 1000	_			Start Bit 0	Mnemor	nic	^
				1	Holding Register					0			Mnemor	nic	
	•	192.168.2.12	502	1	Holding Register	10	3	1000		0	0	0	Mnemor	nic	
	 	192.168.2.12	502	1	Holding Register	10	3	1000		0	0	0	Mnemor	nic	

Copy Row

Paste Row

🔟 Insert Row

Figure 6: "Set Access ->Modbus Write" window

🛐 Delete Row

Cancel



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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.

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' at OFF position;
- Turn on the device.

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

	👑 SW67814	Ethernet Update (Non risponde	e) 💌
<i>Figure 7: "Update device" windows</i>	INIT : Waiting FIRMWARE : Wait PROJECT : Waitin	ting	ir. 1.003



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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 update.

🖌 <u>Note:</u>

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 HD67814 device.

<u>Note:</u>

When you receive the device, for the first time, you also have to update the Firmware in the HD67814 device.

<u>Warning:</u>

If Fig. 8 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;
- If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- If you are using Windows Seven or Vista or 8, make sure that you have the administrator privileges;
- Take attention at Firewall lock;
- Check the LAN settings.

In the case of HD67814 you have to use the software "SW67814": <u>www.adfweb.com\download\filefold\SW67814.zip</u>.

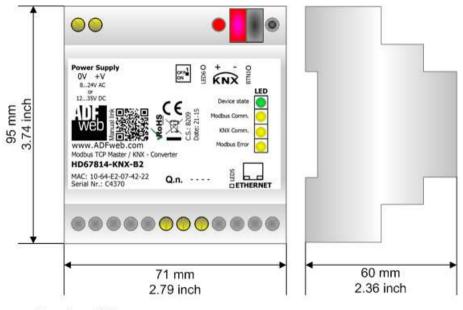


Figure 8: "Protection" window



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MECHANICAL DIMENSIONS:



Housing: PVC Weight: 200g (Approx)

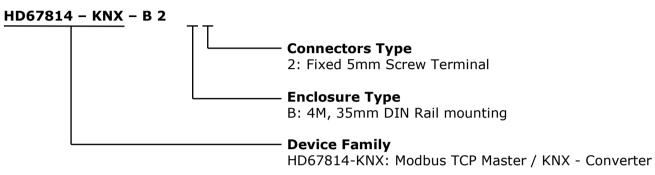
Figure 9: Mechanical dimensions scheme for HD67814-KNX-B2



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ORDERING INFORMATIONS:

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



Order Code: **HD67814-KNX-B2 -** Modbus TCP Master / KNX – Converter

ACCESSORIES:

 Order Code:
 AC34001
 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V AC

 Order Code:
 AC34002
 35mm Rail DIN - Power Supply 110V AC 50/60Hz - 12 V AC



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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.

