

User Manual

Revision 1.000 English

EtherCAT / Modbus Master - Converter

(Order Code: HD67E01-2-A1, HD67E01-5-A1)

Benefits and Main Features:

Very easy to configure

Triple Electrical isolation

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

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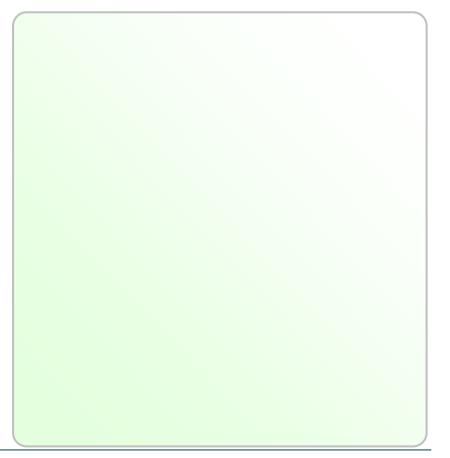
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Industrial Electronic Devices

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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	18/09/2020	Ff	All	First Release

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:

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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.

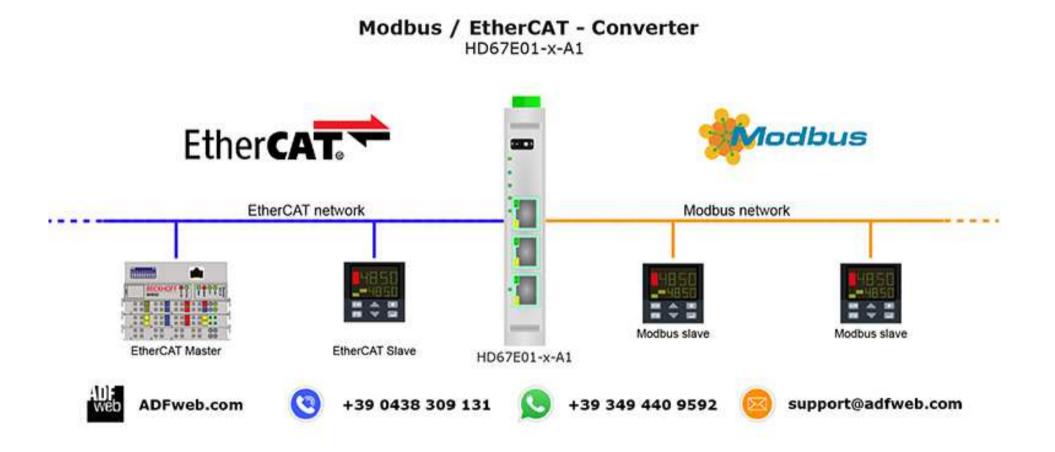
CE CONFORMITY

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



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EXAMPLE OF CONNECTION:





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CONNECTION SCHEME:

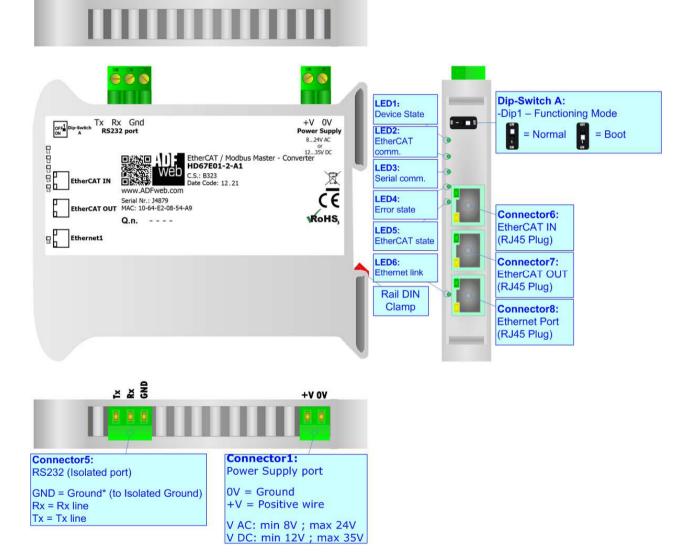


Figure 1a: Connection scheme for HD67E01-2-A1

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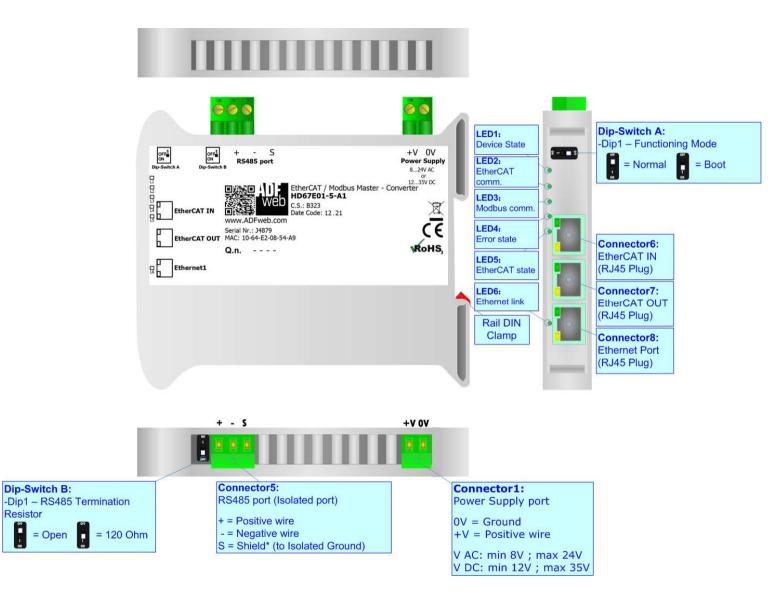


Figure 1b: Connection scheme for HD67E01-5-A1

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CHARACTERISTICS:

The HD67E01-x-A1 are EtherCAT / Modbus Master - Converters.

It allows for the following characteristics:

- Isolation between EtherCAT Modbus Power Supply;
- Two-directional information between EtherCAT bus and Modbus 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 SW67E01 software on your PC in order to perform the following:

- Define the parameters of EtherCAT line;
- Define the parameters of Modbus line;
- Define EtherCAT variables to read and write;
- Define Modbus registers to read and write from/to the Slaves;;
- Export the ESI file for configuration of EtherCAT Master;
- Update the device.



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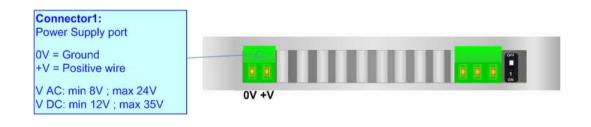
POWER SUPPLY:

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

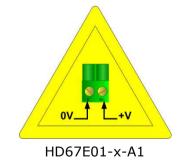
VAC	\sim	VDC			
Vmin Vmax		Vmin	Vmax		
8V	24V	12V	35V		

Consumption at 24V DC:

ſ	Device	Consumption [W/VA]			
	HD67E01-x-A1	3.5			



Caution: Do not reverse the polarity power





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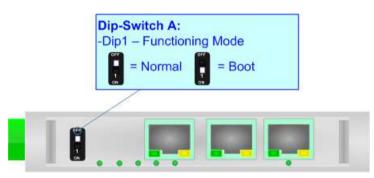
FUNCTION MODES:

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

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

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

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



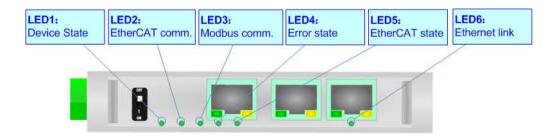


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LEDS:

The device has got seven LEDs that are used to give information about 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: EtherCAT comm. (green)	It blinks when EtherCAT communication is running	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: Modbus comm. (green)	It blinks when a Modbus response is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Error state (green)	ON: An error in the communication busses occurs OFF: No errors are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: EtherCAT state (green)	OFF: EtherCAT Master not connected Blinking: EtherCAT Master is connecting ON: EtherCAT Master is connected	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
6: Ethernet1 link (green)	ON: Ethernet cable connected OFF: Ethernet cable disconnected	ON: Ethernet cable connected OFF: Ethernet cable disconnected



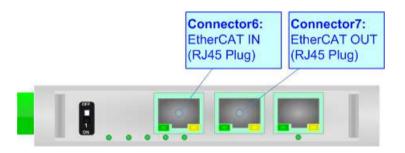


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ETHERCAT

EtherCAT (Ethernet for Control Automation Technology) is an Ethernet-based fieldbus system, invented by Beckhoff Automation. The protocol is standardized in IEC 61158 and is suitable for both hard and soft real-time computing requirements in automation technology. With EtherCAT, the standard Ethernet packet or frame (according to IEEE 802.3) is no longer received, interpreted, and copied as process data at every node. The EtherCAT slave devices read the data addressed to them while the telegram passes through the device, processing data "on the fly". In other words, real-time data and messages are prioritized over more general, less time-sensitive or heavy load data.

The converter has two EtherCAT ports, one is used as Input port (Connector6) and it will receive the incoming messages from the Master, the other is used as Output port (Connector7) and i twill forward the messages to the others nodes of the network.



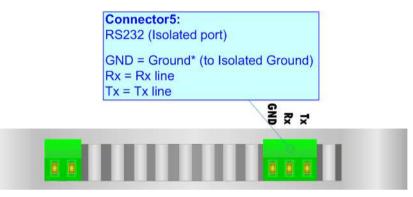


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RS232:

The connection from RS232 socket to a serial port (example one from a personal computer) must be made with a NULL MODEM cable (a serial cable where the pins 2 and 3 are crossed).

It is recommended that the RS232 cable not exceed 15 meters.

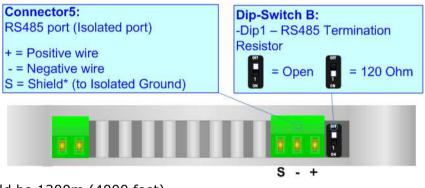




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RS485:

For terminate the RS485 line with a 120Ω resistor it is necessary to put ON dip 1, like in figure.



The maximum length of the cable should be 1200m (4000 feet).

Here some codes of cables:

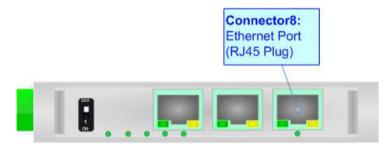
- Belden: p/n 8132 2x 28AWG stranded twisted pairs conductor + foil shield + braid shield;
- Belden p/n 82842 2x 24AWG stranded twisted pairs conductor + foil shield + braid shield;
- Tasker: p/n C521 1x 24AWG twisted pair conductor + foil shield + braid shield;
- ✤ Tasker: p/n C522 2x 24AWG twisted pairs conductor + foil shield + braid shield.



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ETHERNET:

The updating of the converter must be made using Connector8 of the HD67E01-x-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 SW67E01:

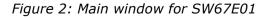
To configure the Converter, use the available software that runs with Windows called SW67E01. It is downloadable on the site <u>www.adfweb.com</u> and its operation is described in this document. *(This manual is referenced to the last version of the software present on our web site)*. The software works with MSWindows (XP, Vista, Seven, 8, 10; 32/64bit).

When launching the SW67E01, the window below appears (Fig. 2).

Mote:

It is necessary to have installed .Net Framework 4.

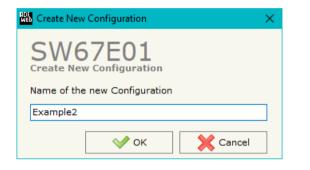
WE ADFweb.	.com - Configurator SW67E01 - EtherCAT Slave / Modbus Master	×
	67E01 T Slave / Modbus Master - Converter	
Begin	Opened Configuration of the Converter : Example1	
Step 1	New Configuration	
Step 2	Set Communication	
Step 3	EtherCAT Set Access	
Step 4	Modbus Set Access	
Step 5	EtherCAT ESI File	
Step 6	Y Update Device UDP	www.ADFweb.com





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 "EtherCAT Slave / Modbus 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	—		×
SW67E01 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 🛛 🕹 🗙					
SW67E01 Software Options					
Language Connection Options Software Settings					
Enable Internet Connection					
Check Software Update at Start of Program					
Check Available Update					
OK X Cancel					

Web Software	e Options	×
	67E01	
Language	Connection Options Software Settings	
Selected	Language :	
	English	
	Page 1 / 1	
V	P 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 SW67E01 checks automatically if there are updatings when it is launched.



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Software Options	>
SW67E01 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	
V OK X Cancel	

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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3

11

RS232

115200

NONE

1 Stop Bits

devicename1

Set Communication

Revision Number

Slave Name

Node Address

Serial

Parity

Baudrate

Stop Bits

SW67E01

Set Communication Setting

1. EtherCAT Slave

2. Modbus Master

SET COMMUNICATION:

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

By Pressing the "Set Communication" button from the main window for SW67E01 (Fig. 2) the window "Set Communication" appears (Fig. 3).

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

- In the field "Revision Number" the revision number of the converter is defined;
- ✤ In the field "Slave Name" the name of the converter is defined:
- In the field "Node Address" the ID of the converter is defined.

The means for the fields for the "Modus Master" are:

- In the field "Serial" the serial port to use is defined (RS232 or RS485);
- In the field "Baudrate" the baudrate for the serial line is defined;
- In the field "Parity" the parity of the serial line is defined;
- In the field "Stop Bits" the number of Stop Bits of the serial line is defined;
- In the field "TimeOut (ms)" the maximum time that the converter attends for the answer from the Slave interrogated is defined;
- In the field "Cyclic Delay (ms)" the delay (idle time) between two Modbus requests is defined.

The means of the fields for "Ethernet" are:

- In the fields "IP Address" the IP address for Ethernet side of the converter is defined:
- In the fields "SubNet Mask" the SubNet Mask for Ethernet 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:

	· · ·	
TimeOut (ms)	1000	
Cyclic Delay (ms)	100	
3. Ethernet	Ξ	
IP Address	192 . 168 . 0 . 5	
SubNet Mask	255 . 255 . 255 . 0	
Gateway	192 . 168 . 0 . 1	
DNS	8.8.8.8	

Ξ

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💥 Cancel

Figure 3: "Set Communication" window

In the fields "DNS" the IP address of the DNS server is defined



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ETHERCAT SET ACCESS:

By Pressing the "EtherCAT Set Access" button from the main window for SW67E01 (Fig. 2) the window "EtherCAT Slave Set Access" appears (Fig. 4).

This section is used to define the EtherCAT variables readable by the EtherCAT Master (Slave To Master) and the EtherCAT variables writeable by the EtherCAT Master (Master To Slave).

SLAVE TO MASTER

WED Et	herCAT Sla	ve Set Access							—	×
Ethe	erCAT Sla	7E01 ave Set Access								
Ν	Enable	Туре	Length	Name	Init Value	Position	Start Bit	Mnemonic		^
1		Int16	2	test1	0	0	0	Test1		
2		UInt32	4	test2	0	2	0	Test2		
3										
4										
5										~
	🔶 ок	Cance	el 🗾 🛐 Dele	te Row Insert Row Copy Row	Paste Ro	w				

Figure 4a: "EtherCAT Slave Set Access → Slave To Master" window

- If the field "Enable" is checked, the EtherCAT variable is enabled;
- In the field "Type" the data format of the EtherCAT variable is defined;
- In the field "Lenght" the dimension of the EtherCAT variable is defined;
- In the field "Name" the name of the EtherCAT variable is defined;
- In the field "Init Value" the default value of the EtherCAT variable is defined;
- In the field "**Position**" the starting address of the EtherCAT array where the variable is mapped is defined;
- In the field "Start Bit" the starting bit of the selected Position where the variable is mapped is defined;
- In the field "Mnemonic" a description of the variable is defined.



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MASTER TO SLAVE

Web Eth	herCAT Sla	ve Set Access						-	×
		7E01							
		ave Set Access							
	To Master	Master To Slave	Length	Name	Position	Start Bit	Mnemonic		•
N 1		Int32	4	test3	0		Test3		
-		1002	T	lests	0	U	Testa		
2									
3									
4									
5									~
	؇ ок	X Cance	el 🗾 🗾 Dele	te Row Insert Row Copy Row	Paste Ro	w			

Figure 4b: "EtherCAT Slave Set Access → Master To Slave" window

- If the field "Enable" is checked, the EtherCAT variable is enabled;
- In the field "Type" the data format of the EtherCAT variable is defined;
- In the field "Lenght" the dimension of the EtherCAT variable is defined;
- In the field "Name" the name of the EtherCAT variable is defined;
- ✤ In the field "Position" the starting address of the EtherCAT array where the variable is mapped is defined;
- In the field "Start Bit" the starting bit of the selected Position where the variable is mapped is defined;
- In the field "**Mnemonic**" a description of the variable is defined.





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MODBUS SET ACCESS:

By pressing the "**Modbus Set Access**" button from the main window for SW67E01 (Fig. 2) the window "Set Modbus Access" appears. This window is divided in two parts, the "Modbus Read" (Fig. 5a) and the "Modbus Write " (Fig. 5b). The first part "Modbus Read" is used to read the data from the Modbus slaves and make them available on EtherCAT side. The second part "Modbus Write " is used to write the data that arrives from EtherCAT side to the Modbus slaves.

MODBUS READ

- If the field "Enable" is checked, the Modbus request is enabled;
- In the field "Slave ID" the address of the Modbus device to read is defined;
- In the field "Type" the data type of the register to read is defined. It is possible to choose between the following:
 - Coil Status;
 - o Input Status
 - Holding Register;
 - Input Register.
- ✤ In the field "Address" the starting address of the register to be read is defined;
- ✤ In the field "NPoint" the number of consecutive registers to be read is defined;
- ✤ In the field "Poll Time" the delay time to make the request is defined;
- In the field "Max Error" the number of consecutive errors that the converter waits before suspending the request until the next reboot is defined. If is set to '0' this function is disabled;
- ✤ In the field "Position" the address of the EtherCAT array where placing the information is defined;
- ✤ In the field "Start Bit" the starting bit of the first byte of the field "Position" is defined;
- ✤ If the field "Swap" is checked, the data from the Modbus registers are swapped;
- If the field "SwapWord" is checked, the Modbus words are swapped;
- ✤ In the field "Mnemonic" the description for the request is defined.

뷊	e Set	Modbus	Access											—	×
			7E0	1											
м	odbus	s Read	Modbus W	rite											
N		Enable	Slave ID	Туре	Address	NPoint	Poll Time	Max Error	Position	Start Bit	Swap	SwapWord	Mnemonic		^
1			1	Holding Register	100	4	1000	0	0	0					
2															
3															
4															
5															~
		🔶 ок		X Cancel	Delete	Row	Insert R	ow i	Copy Rov	v 🏥	Paste R	ow			

Figure 5a: "Modbus Set Access →Modbus

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MODBUS WRITE

- If the field "Enable" is checked, the Modbus request is enabled;
- In the field "Slave ID" the address of the Modbus device that you have to write is defined;
- In the field "Type" the data type of the register to write is defined. It is possible to choose between the following:
 - Coil Status;
 - Holding Register.
- ✤ In the field "Address" the start address of the register to be written is defined;
- In the field "NPoint" the number of consecutive registers to be written is defined;
- In the field "Poll Time" the delay time to make the request is defined;
- ✤ If the field "On Change" is checked, the converter sends the writing request when the data from EtherCAT side change value;
- ✤ If the field "On CMD" is checked, the converter sends the writing request when the data from EtherCAT is received;
- In the field "Max Error" the number of consecutive errors that the converter waits before suspending the request until the next reboot is defined. If is set to '0' this function is disabled;
- In the field "Position" the address of the EtherCAT array where taking the information is defined;
- In the field "Start Bit" the starting bit of the first byte of the field "Position" is defined;
- If the field "Swap" is checked, the data written the Modbus registers are swapped;
- If the field "SwapWord" is checked, the Modbus words are swapped;
- In the field "Mnemonic" the description for the request is defined.

몞	å Set	Modbus	Access												— C	x í
1	Set M	lodbus														
			Modbus W					a					-			
N		Enable	Slave ID	Туре	Address	NPoint	Poll Time	On Change	On CMD	Max Error	Position	Start Bit	Swap	SwapWord	Mnemonic	^
1			1	Holding Register	110	4	1000			0	0	0				
2																
3																
4																
5																~
		؇ ок		X Cancel	S Delete	Row	Insert R	ow	Copy Rov	v 📫	Paste Row				a	

Figure 5b: "Modbus Set Access →Modbus Write" window



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ETHERCAT ESI FILE:

By pressing the "**EtherCAT ESI File**" button it is possible to save the ESI file for the EtherCAT side of the converter. The ESI file is used to configure the EtherCAT Master.



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)	×
SW67E01 Update Device Using the Ethernet Port	
Insert the IP Address of Device	
Select Update Options	
Firmware + Configuration	~
Read Back	
Cancel	
🔠 ADFweb.com - SW67E01 Ethernet Update	×
INIT : Waiting	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	

Figure 6: "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 HD67E01 device.

<u>Warning:</u>

If Fig. 7 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.

Warning:

In the case of HD67E01 you have to use the software "HD67E01": <u>www.adfweb.com\download\filefold\SW67E01.zip</u>.

web ADFweb.com - Swo/EUT Ethernet Opdate	×
INIT : Device Not Found	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	
🕮 ADFweb.com - SW67E01 Ethernet Update	×
ADFweb.com - SW67E01 Ethernet Update	× Ver. 1.602
INIT : PROTECTION	
INIT : PROTECTION FIRMWARE : Waiting	

Figure 7: "Error" window

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MECHANICAL DIMENSIONS:

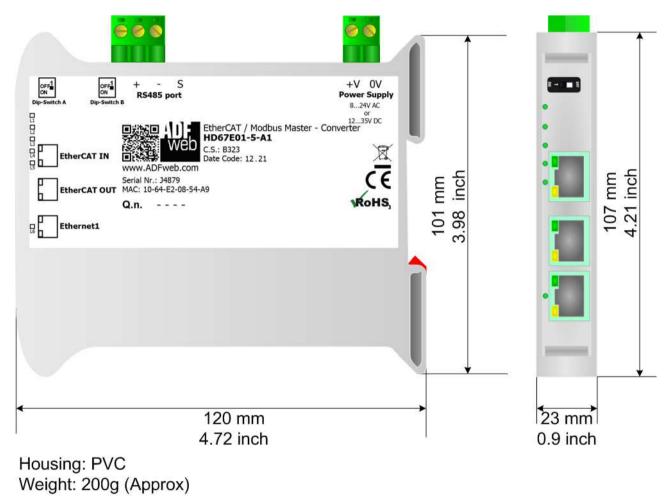


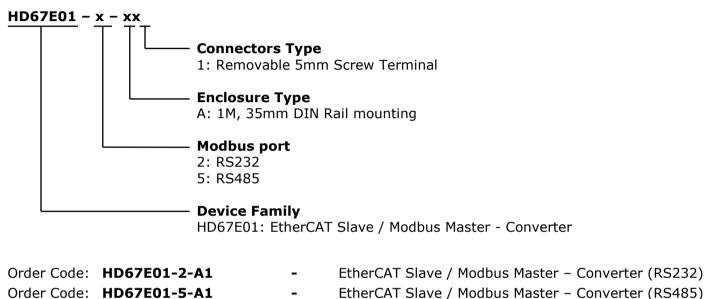
Figure 8: Mechanical dimensions scheme for HD67E01-x-A1



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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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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.



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.



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