

User Manual

Revision 1.000 English

EnOcean / PROFINET Slave - Converter

(Order Code: HD67C77-B2)

Benefits and Main Features:

Very easy to configure

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

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

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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	05/12/2019	Ff	All	First release version

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 or give us a call if you need it.



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EXAMPLE OF CONNECTION:







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CONNECTION SCHEME:

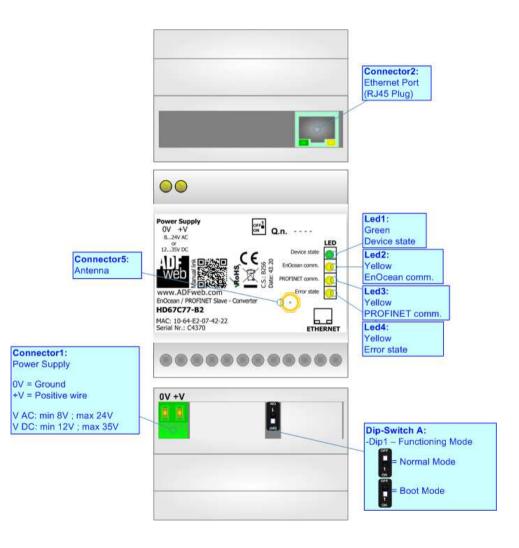


Figure 1: Connection scheme for HD67C77-B2



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CHARACTERISTICS:

The HD67C77-B2 is a EnOcean / PROFINET Slave Converter.

It allows the following characteristics:

- Electrical isolation between Ethernet and Power Supply;
- Mountable on 35mm Rail DIN;
- ✤ Wide power supply input range: 18...35V DC and 8...24V AC;
- ✤ Wide temperature range: -40°C / 85°C [-40°F / +185°F].

CONFIGURATION:

You need Compositor SW67C77 software on your PC in order to perform the following:

- Define the parameter of PROFINET line;
- Define the parameter of EnOcean line;
- Generate the GSDML file for PROFINET Master configuration;
- Update the device.



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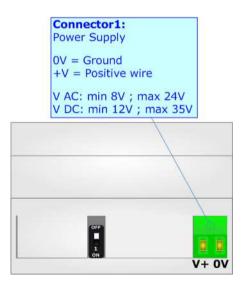
POWER SUPPLY:

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

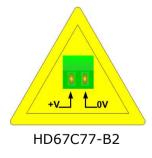
vac \sim		VDC	
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

Consumption at 24V DC:

	Device	Consumption [W/VA]
HD67	С77-В2	3.5



Caution: Not reverse the polarity power





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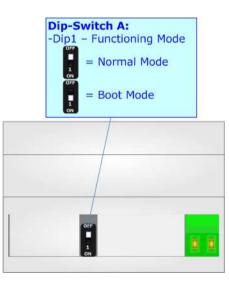
FUNCTION MODES:

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.



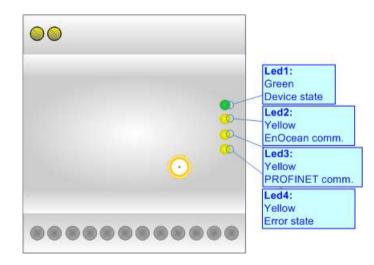


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LEDS:

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

LED	Normal Mode	Boot Mode
1: Device State (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
2: EnOcean communication (yellow)	Blinks when EnOcean data is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: PROFINET communication (yellow)	Blinks when PROFINET communication is running	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Error state (yellow) 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



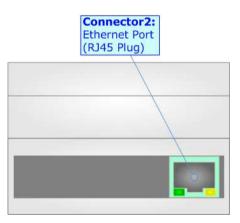


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ETHERNET:

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

The Ethernet connection must be made using Connector2 of HD67C77-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.





ENOCEAN:

EnOcean is a protocol designed for energy harvesting devices communication. The main fields of application are building automation and domotics, but it can also be potentially used in the industrial field.

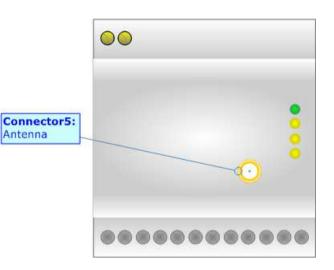
EnOcean products include solutions for environment monitoring, smart metering and lighting. Each device uses a unique ID for identification and one of the standardized profiles (EEPs) for data transmission. Communication process may be secure or unsecure and may be unidirectional or bidirectional (for devices that support Smart Acknowledge operating mode).

EnOcean is based on wireless communication on 868.3 MHz ASK.

It is possible to connect up to 100 EnOcean devices to a single converter, where up to 32 can be in Secure Mode and up to 19 with Smart Acknowledge.

The Antenna connector is a SMA Female ('Female Outer Shell' and 'Female Receptacle') so the Antenna must have a SMA Male connector.

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USE OF COMPOSITOR SW67C77:

To configure the Converter, use the available software that runs with Windows called SW67C77. It is downloadable on the site <u>www.adfweb.com</u> and its operation is described in this document. The software works with MS Windows (XP, Vista, Seven, 8, 10; 32/64bit).

When launching the SW67C77, the window below appears (Fig. 2).



It is necessary to have installed .Net Framework 4.

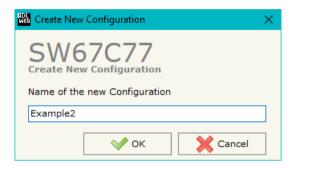
Web ADFweb.c	om - Configurator SW67C77 - EnOcean / PR	OFINET Slave	×
SW	67C77 / PROFINET Slave - Converter		
Begin	Opened Configuration of the Converter Example1	:]
Step 1	New Configuration	en Configuration]
Step 2	Set Communication		
Step 3	EnOcean Access		
Step 4	PROFINET XML		
Step 5	X Update Device UDP		www.ADFweb.com

Figure 2: Main window for SW67C77



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 "EnOcean / PROFINET 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".

📲 Open Configuration	—		×
SW67C77 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 X	
SW67C77 Software Options	
Enable Internet Connection Check Software Update at Start of Program Check Available Update	In th upda Chec SW6
V OK Cancel	

Web Software	Options		×	
	67C77			
Language	Connection Options Soft	ware Settings		
Selected	Language :			
English				
		Page 1 / 1		
v	OK X Cancel	I		

n 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 GW67C77 check automatically if there are updatings when it is launched.

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Software Options	×
SW67C77 Software Options	
☐ Jump into next field in the tables by pressing the Enter Key ☐ Enable Auto Size of Table Columns by Double Click	
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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SET COMMUNICATION:

By Pressing the "**Set Communication**" button from the main window for SW67C77 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "PROFINET" are:

- In the field "IP Address" the IP address for PROFINET side of the converter is defined;
- In the field "SubNet Mask" the SubNet Mask for PROFINET side of the converter is defined;
- In the field "Gateway" the default gateway of the net is defined. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;
- In the field "Tunneling Port" the port used for transparent UDP communication is defined;
- In the field "Name of Station" the name of PROFINET side of the converter is defined;
- In the field "Number Bytes Input" the number of input byte of the slave station is defined;
- In the field "Number Bytes Output" the number of output byte of the slave station is defined;
- In the field "Diagnostic" insert the starting byte of the PROFINET array where you will save the diagnostic of EnOcean. It is possible to enable/disable this function using the checkbox.

SW67C77 Set Communication Setting 1. PROFINET IP Address 192 168 0 .5 SubNet Mask 255 .255 .255 .0 Gateway 192 .168 .0 .1 Tunneling Port 2000 .1 .1 Name of Station devicename1 .1 Number Bytes Input 1438 .1 Diagnostic 0 .1	
IP Address 192 168 0 .5 SubNet Mask 255 .255 .255 .0 Gateway 192 .168 .0 .1 Tunneling Port 2000 .00 .1 Name of Station devicename1 .0 .1 Number Bytes Input 1438 .0 .0	
SubNet Mask 255 255 255 0 Gateway 192 168 0 1 Tunneling Port 2000 0 0 Name of Station devicename1 0 0 Number Bytes Input 1438 0 0	
Gateway 192 168 0 1 Tunneling Port 2000 0 0 0 Name of Station devicename1 0 0 0 Number Bytes Input 1438 0 0 0 Number Bytes Output 1438 0 0 0	
Tunneling Port 2000 Name of Station devicename1 Number Bytes Input 1438 Number Bytes Output 1438]
Name of Station devicename1 Number Bytes Input 1438 Number Bytes Output 1438]
Number Bytes Input 1438 Number Bytes Output 1438	
Number Bytes Output 1438	
]
Diagnostic 0]
]
✓ ОК Хапсеі	

Figure 3: "Set Communication" window



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ENOCEAN ACCESS:

By Pressing the "**EnOcean Set Access**" button from the main window for SW67C77 (Fig. 2) the window "EnOcean Set Access" appears (Fig. 4). This section is used to define the list of the EnOcean devices to read/write.

EnOcean Set Access				-	×
SW67C77 EnOcean Set Access					
ID Devices List	/ Unidirectional				
10	Unidirectional - EEP List V EEP - RORG : 0xF6 FUNC : 0x01 TYPE : 0x01	EEP			1
	Variable - Push button	RORG	0xF6 : RPS Telegram		
	EEP - RORG : 0xD5 FUNC : 0x00 TYPE : 0x01	FUNC	0x01 : Switch Buttons		
	IVariable - Contact	TYPE	0x01 : Push Button		
		Variable			
		Case	1->		
		Variable	Push button		
		Position	0		
		Bit Start	0		
Сапсеl					

Figure 4: "EnOcean Access" window



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By clicking on "+" or "Modify" under "ID Devices List", it is possible to add/modify a new EnOcean device inserting its characteristics. The window "Add/Modify EnOcean device" appears (Fig. 5).

The means of the fields are:

- In the field "Device ID" the ID of the EnOcean device is defined;
- In the field "Secure Type " the type of EnOcean communication is defined;
- In the field "Key" the key used for encryption of frames in Secure Mode is defined;
- In the field "Rolling Code" the Rolling Code for the EnOcean communication is defined;
- In the field "Rolling Code Algorithm" the type of Rolling Code is defined;
- In the field "Rolling Code Tx" the transmission of the Rolling Code is enabled/disabled;
- In the field "CMAC Algorithm" the MAC field at the end of the EnOcean frame is defined;
- In the field "Data Encrypted" the encryption of the data is enabled/disabled;
- ✤ In the field "PTM" the type of EnOcean device is defined.

없는 Add EnOcean Device		×
SW67C7 Add EnOcean Device	7	
Device ID		
Secure Type	Secure with Manual Setting	~
Кеу		
Rolling Code		
Rolling Code Algorithm	No RLC algorithm	~
Rolling Code Tx	No	~
CMAC Algorithm	No MAC	~
Data Encripted	No data encryption	~
РТМ	No PTM	~
🗸 ок	X Cancel	

Figure 5: "Add/Modify EnOcean device" window



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By clicking on "+" or "**Modify**", it is possible to add/modify a new variable for the selected ID. The window "Add/Modify EnOcean variable" appears (Fig. 6).

The means of the EEP fields are:

- In the field "Rorg" the type of EnOcean telegram is defined;
- In the field "Func" the type of EnOcean instance is defined;
- ✤ In the field "Type" the type of event is defined.

The means of the Variable fields are:

- In the field "Case" the format of the EnOcean telegram is defined;
- In the field "Variable" the variable to read/write is defined;
- In the field "Position" the starting byte of the internal array where mapping/taking the variable is defined;
- In the field "Bit Start" the starting bit of the defined Position where mapping/taking the variable is defined.

월 Add EnOcean Variable >		
SW67C		
EEP		
Rorg	0xF6 : RPS Telegram	~
Func	0x01 : Switch Buttons	~
Туре	0x01 : Push Button	~
Variable		
Case	1 ->	~
Variable	Push button : 3, 1	~
Position	0	
Bit Start	0	~
ок	Cancel	

Figure 6: "Add/Modify EnOcean variable" window



PROFINET XML:

By Pressing the "**PROFINET XML**" button from the main window for SW67C77 (Fig. 2) it is possible to generate the xml file to be imported into the master PROFINET.

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🕮 PROFINET XML File Name		×
SW67C77 Create the PROFINET XML	. GSD File	
Select the PROFINET XML File	e Name	
Fixed Part	User Part	Fixed Part
GSDML-V2.31-ADFweb-HD67C77	HD67C77	-20201024.xml
🗸 ок 🛛 🗶	Cancel	

Figure 7: "PROFINET XML File Name" window



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)	×
SW67C77 Update Device Using the Ethernet Port	
Insert the IP Address of Device	
Select Update Options	
Firmware + Configuration	~
Read Back	
	_
Cancel 🔛 Execute Update Firmware	
Cancel Execute Update Firmware	X
	Ver. 1.602
ADFweb.com - SW67C77 Ethernet Update	~ ~
INIT : Waiting	~ ~
ADFweb.com - SW67C77 Ethernet Update	~ ~
ADFweb.com - SW67C77 Ethernet Update	~ ~

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 HD67C77 device.

<u>Warning:</u>

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 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 HD67C77 you have to use the software "SW67C77": www.adfweb.com\download\filefold\SW67C77.zip.

ADFweb.com - SW67C77 Ethernet Update	×
INIT : Device Not Found	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	
ADFweb.com - SW67C77 Ethernet Update	×
INIT : PROTECTION	× Ver. 1.602
	X Ver. 1.602
INIT : PROTECTION	X Ver. 1.602
INIT : PROTECTION FIRMWARE : Waiting	X Ver. 1.602

Figure 9: "Error" window



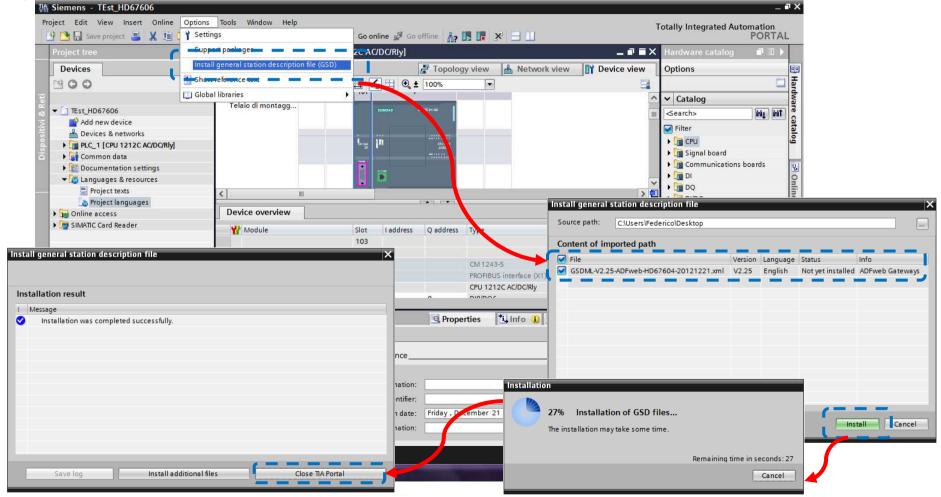
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PLC CONFIGURATION:

The configuration and commissioning of the PROFINET Converter as described on the following pages was accomplished with the help of the TIA Portal software by Siemens. In the case of using a control system from another supplier, refer to attend to the associated documentation.

These are the steps to follow:

1) Install the description file of the module.



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2) Import the module in the network; connect the device to the PLC network and edit the parameters of IP, station name etc.

Project Project Project Eroject Edit View Insert Online Options	itt View Insert Online Options Tools Window Help Saveproject 🚆 🗶 🗐 ि 🗙 🏷 ± (주 ± 🎲 ि 🗓 🗗 🖳 🖓 Go online 🖉 Go tree II < Guide > Devices & networks es	H	TAL at a
Project tree	Guide + Devices & networks	_ 7 8	
Devices		🚰 Topology view 👗 Network view 🛐 Device view	v Drives
Image: Sources of the second seco	Image: State of the second st	4 IO system: PLC_1.PROFINET IO-System (100)	Gateway Gateway Gateway Dollar ADFweb.com ADFweb.com ADFweb.com ADFweb.com HD670782 HD67602 HD67603 HD67604 HD67604 HD67605 HD67606 HD67609
	SERIAL CAN		HD67606-A1
	IE1 General	Properties 🗓 Info 🔋 🖢 Diagnostics 💷 =	(GSDML-V2.25-ADFWEE
	General General Ethernet addres Advanced options Use IP protocol IP address: 192 . 168 Subnet mask: 255 . 255 Use IP router Router address: 0 . 0	. 255 . 0	A de opened.
> Details view	Set IP address using a different	nethod	~
Portal view	Devices & ne	💙 Project Guide opened.	



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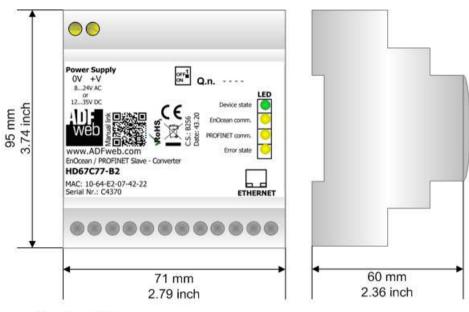
3) Load the configuration into the PLC.

Configured access nodes of *PLC_1* Device type of the PG/PC interface: PROFIBUS 2 Type of the PG/PC interface: PROFIE PG/PC interface: PNIE_1 PS/PC interface: PS/PC interface: PNIE_1 PS/PC interface: PS/PC interface: PNIE_1 PS/PC interface: PS/PC interface: P	
PLC_1 CPU 1212C ACID PNIE 192.168.2.50 PNIE_1 CM 1243-5 CM 1243-5 PROFIBUS 2 Type of the PG/PC interface: PG/PC interface: PNIE_1 PG/PC interface: PNIE_1 PG/PC interface: PNIE_1 PG/PC interface: PSiPc interface: Psipe Address Target devices PLC_1 CPU 1212C ACID	
CM 1243-5 CM 1243-5 PROFIBUS Type of the PG/PC interface: PC/PC inter	
PG/PC interface: PN/IE_1 Ist gateway: Show all accessible devices Device type PLC_1 CPU 1212C AC/D PN/IE 192.168.2.50 PLC_1 PLC_1 PN/IE Access address - Brash LED Access address - - PN/IE Access address - Brash LED Access address - - - - - -	
PG/PC interface: PM/E_1 PM/E_1 PM/E PM/E PM/E PM/E PM/E PM/E PM/E PM/E	
Connection to subnet: Ist gateway: Accessible devices in target subnet: Show all accessible devices PLC_1 CPU 1212C AC/D PN/IE Access address - - - PN/IE Access address - - - - PN/IE Access address -	
Accessible devices in target subnet: Show all accessible devices Device Device type Type Address Target device PLC_1 CPU 1212C AC/D PN/IE 192.168.2.50 PLC_1 PLC_1 CPU 1212C AC/D PN/IE Access address - Plash LED Flash LED Image: Target device Image: Target device	
Device to log control of the structure Device type Type Address Target device PLC_1 CPU 1212C AC/D PN/IE 192.1682.50 PLC_1 P - - PN/IE Address - Image: Plant LED - PN/IE Address -	
PLC_1 CPU 1212 C AC/D PN/IE 192.168.2.50 PLC_1 Fish LED - PN/IE Access address - Load preview Fish LED - - PN/IE Access address - Check before loading	
Flash LED	
Flash LED Status ! Target Message	
Flash LED Status ! Target Message	
↓ V V LC_1 Ready for loading.	Action
Befresh Stop modules All modules will be stopped for down	nloading to device. Stop all
line status information: Connected to address 192.168.2.50	arget Download to device
Connected to address 192.168.2.50 Image: Connected to address 192.168.2.50 Scanning ended. Image: Connected to address 192.168.2.50	Consistent downloa
Additional inform There are differences between the se	ettings for the project and the se 🗹 Overwrite all
<u>L</u> oad <u>C</u> ancel	
	Refresh
	Finish Load C



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MECHANICAL DIMENSIONS:



Housing: PVC Weight: 200g (Approx)

Figure 10: Mechanical dimensions scheme for HD67C77-B2

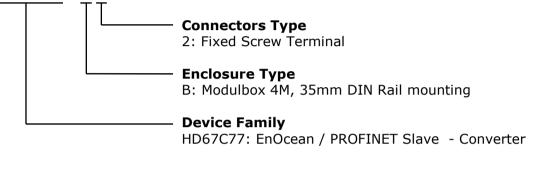


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ORDERING INFORMATIONS:

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

HD67C77 – B 2



Order Code: HD67C77-B2 - EnOcean / PROFINET Slave – Converter

ACCESSORIES:

Order Code: AC340	11 -	35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V DC
Order Code: AC340	12 -	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.



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