

User Manual

Revision 1.000 English

DALI / Modbus Master - Converter

(Order Code: HD67842-B2-Y, HD67842-B2-N)

for Website information:

www.adfweb.com?Product=HD67842

for Price information:

www.adfweb.com?Price=HD67842-B2

Benefits and Main Features:

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



User Manual

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For others DALI products, see also the following links:

Converter DALI to

www.adfweb.com?Product=HD67822 www.adfweb.com?Product=HD67831 www.adfweb.com?Product=HD67832 www.adfweb.com?Product=HD67833 www.adfweb.com?Product=HD67834 www.adfweb.com?Product=HD67835 www.adfweb.com?Product=HD67836 www.adfweb.com?Product=HD67837 www.adfweb.com?Product=HD67838 www.adfweb.com?Product=HD67839 www.adfweb.com?Product=HD67840 www.adfweb.com?Product=HD67843 www.adfweb.com?Product=HD67844 www.adfweb.com?Product=HD67845 www.adfweb.com?Product=HD67848 www.adfweb.com?Product=HD67849 www.adfweb.com?Product=HD67850 www.adfweb.com?Product=HD67941

(KNX) (RS485) (BACnet/IP Master) (BACnet/IP Slave) (CAN) (CANopen) (DeviceNet Master) (DeviceNet Slave) (DMX) (Ethernet) (EtherNet/IP) (Modbus Slave) (Modbus TCP Master) (Modbus TCP Slave) (PROFINET) (SNMP Manager) (SNMP Agent) (MQTT)

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



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UPDATED DOCUMENTATION:

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

- → Updated
- → Related to the product you own

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

With this "Document Code" go to web page www.adfweb.com/download/ 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	05/04/2017	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:

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

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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

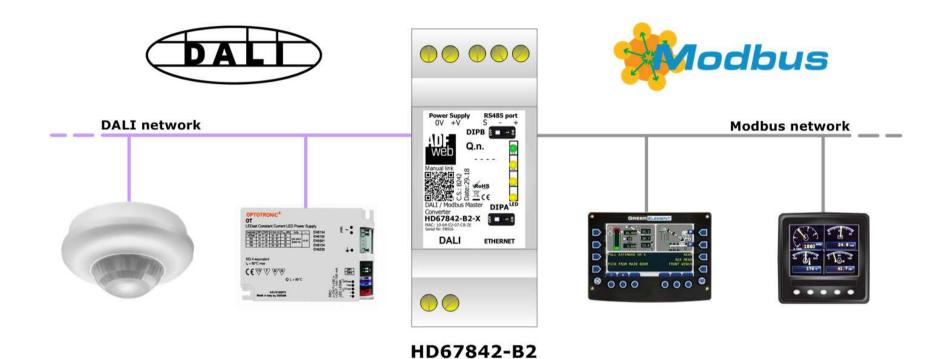
The declaration is made by our company. You can send an email to support@adfweb.com or give us a call if you need it.

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EXAMPLE OF CONNECTION:





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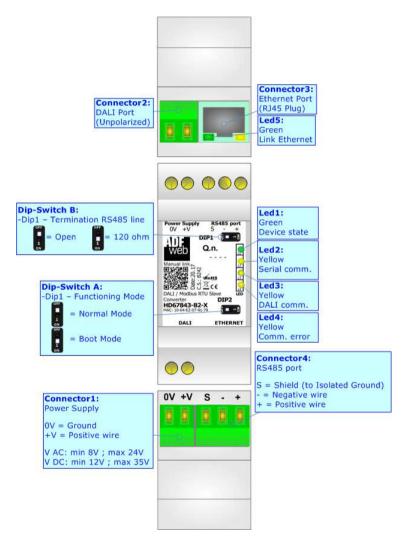


Figure 1: Connection scheme for HD67842-B2

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CHARACTERISTICS:

The HD67842 is a DALI / Modbus Master - Converter.

It has the following characteristics:

- → Up to 64 devices on DALI bus;
- Configurator for DALI network/devices;
- → Isolation between DALI RS485, Power Supply RS485. Additional isolation Power Supply DALI for HD67842-B2-N version;
- → Two-directional information between DALI 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 "DALI Console" software on your PC in order to perform the following:

- Configure the DALI network;
- Setup the DALI devices (groups, scenes, IDs, ...);
- ★ Test DALI communication.

You need Compositor SW67842 software on your PC in order to perform the following:

- → Define the parameter of Modbus line;
- Define the parameter of DALI line;
- → Update the device.

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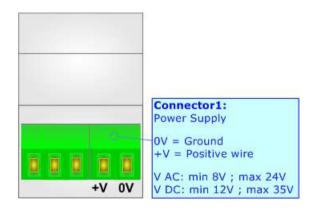
POWER SUPPLY:

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

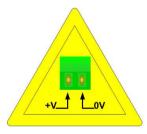
VAC ~		VDC	===
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

Consumption at 24V DC:

Device	Consumption [W/VA]
HD67842-B2	3.5



Caution: Not reverse the polarity power



HD67842-B2

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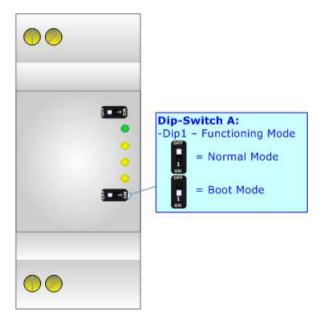
FUNCTION MODES:

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.

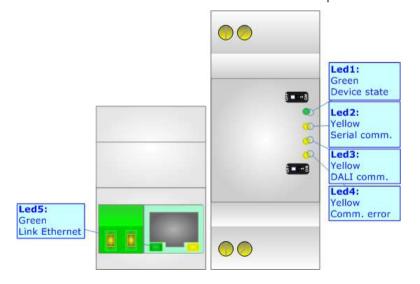


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LEDS:

The device has got five 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: Serial communication (yellow)	Blinks when Modbus communication is running	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: DALI communication (yellow)	Blinks when DALI communication is running	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Comm. error (yellow)	Turns ON when DALI or Modbus is in error	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Ethernet Link (green)	ON: Ethernet cable connected	ON: Ethernet cable connected
J. Lillerhet Lillk (green)	OFF: Ethernet cable disconnected	OFF: Ethernet cable disconnected



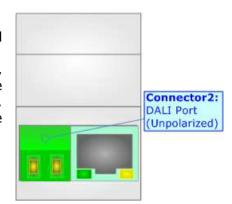
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DALI:

DALI stands for "<u>Digital Addressable Lighting Interface</u>" and it is an interface protocol for digital communication between electronic lighting equipment (electronic ballasts, transformers, etc.).

With the right choice of individual DALI components an extremely wide range of requirements can be met, from operating the lighting system from a simple light switch to lighting management systems for entire office complexes with thousands of light sources. Using ADFweb.com's DALI converters, any light source, including incandescent lamps, fluorescent lamps, high-intensity discharge lamps and even LEDs, can be controlled irrespective of whether they are installed in an office, a restaurant or a street light.

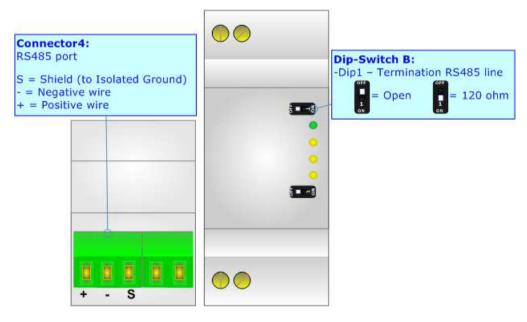
Characteristics	Description
Medium	Shielded Twisted Pair
Topology	Linear, Star or mixed
Device power consumption	Max 250 mA
DALI voltage	9.5 V - 22.5 V (typical 16 V)
Maximum cable length	300 m (1.5 mm2 wire)
Maximum number of DALI devices	64
Baud rate	1200 bps
Maximum number of DALI groups	16
Maximum number of DALI scenes	16



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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:

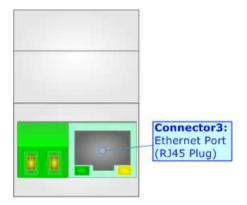
- → Belden: p/n 8132 2x 28AWG stranded twisted pairs conductor + foil shield + braid shield;
- ▶ Belden p/n 82842 2x 24AWG stranded twisted pairs conductor + foil shield + braid shield;
- → Tasker: p/n C521 1x 24AWG twisted pair conductor + foil shield + braid shield;
- → Tasker: p/n C522 2x 24AWG twisted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

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ETHERNET:

The Ethernet port is used for programming DALI network and for programming the device.

The Ethernet connection must be made using Connector2 of HD67842-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 SW67842:

To configure the Converter, use the available software that runs with Windows called SW67842. It is downloadable on the site www.adfweb.com and its operation is described in this document. (This manual is referenced to the last version of the software present on our web site). The software works with MSWindows (XP, Vista, Seven, 8, 10; 32/64bit).

When launching the SW67842, the window below appears (Fig. 2).



Note:

It is necessary to have installed .Net Framework 4.



Figure 2: Main window for SW67842

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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 "DALI / 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".

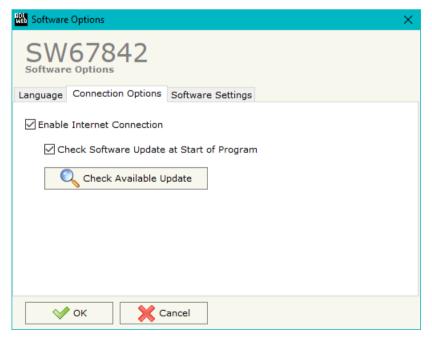


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SOFTWARE OPTIONS:

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.





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 SW67842 check automatically if there are updatings when it is launched.

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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 Modbus and DALI bus.

By Pressing the "**Set Communication**" button from the main window for SW67842 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for the "Modbus Slave" section are:

- ▶ 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 "ID Device" the ID of the Modbus side is defined;
- ★ In the "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 between two requests is defined.

The means of the fields for the "DALI" section are:

- → In the field "DALI Console Port" the UDP port used for the communication with 'DALI Console' software is defined;
- → If the field "Switch off DALI on Timeout" is checked, the DALI line is switched OFF if there is no communication with the Modbus slaves for the "TimeOut (ms)" defined below.

The means of the fields for the "Ethernet" section are:

- ▶ In the field "IP ADDRESS" the IP address of the converter is defined;
- In the field "SUBNET Mask" the SubNet Mask is defined;
- → In the field "GATEWAY" the default gateway of the Ethernet network is defined. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;

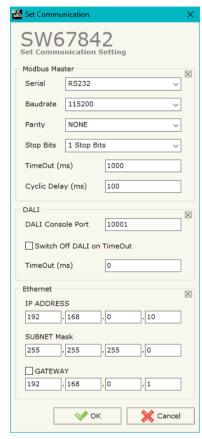


Figure 3: "Set Communication" window

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DALI ACCESS:

By pressing the "DALI Access" button from the main window for SW67842 (Fig. 2) the window "Select the DALI Device Present in the Network" appears (Fig. 4).

This section is used to define the DALI devices connected to the converter. It is enough to check/uncheck the connected/unconnected DALI devices.

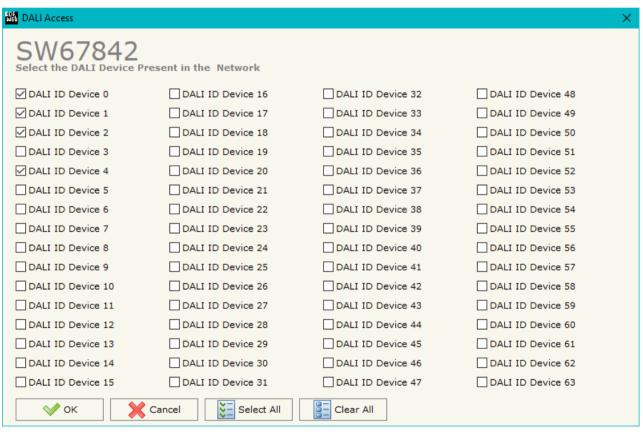


Figure 4: "DALI Access" window

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SET MODBUS ACCESS:

By Pressing the "Set Modbus Access" button from the main window for SW67842 (Fig. 2) the window "Set Access" appears (Fig. 4).

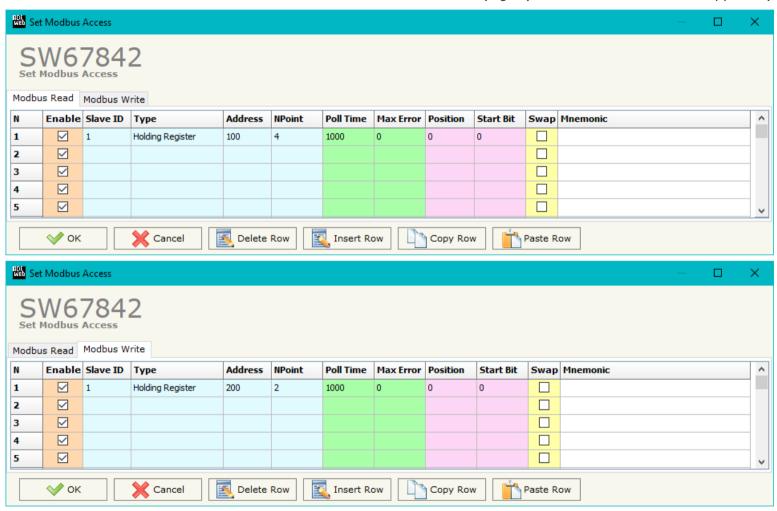


Figure 5: "Set Access" window

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The window is divided in two parts, the "Modbus Read" that contains the Modbus registers/status readable by the converter and "Modbus Write" that contains the Modbus registers/status writeable by the converter.

The meaning of the fields in the window are the follows:

- → If the field "Enable" is checked, the Modbus request is enabled;
- ▶ In the field "Slave ID" the address of the Modbus device to read/write is defined;
- ▶ In the field "Type" the data type of the Register to read/write is defined. It is possible to choose between the following:
 - Coil Status;
 - Input Status (only readable);
 - Holding Register;
 - o Input Register (only readable).
- ▶ In the field "Address" the starting address of the register/status to read/write is defined;
- ▶ In the field "NPoint" the number of consecutive registers/status to read/write is defined;
- → In the field "Poll Time" the time (expressed in milliseconds) used to read/write the register/status is defined. If '0', the request isn't sent;
- → In the field "Max Error" the number of consecutive errors that the Master waits before discarding the row from the cycle of requests is defined;
- ▶ In the field "Position" the position (byte) where taking/saving the data from/to the internal arrays of the converter is defined;
- ➤ The field "Start Bit" allows to select which bit of the selected Position using;
- ▶ If the field "Swap" is checked, the bytes of the value read/written are exchanged between them;
- ▶ In the field "Mnemonic" a description of the data inserted in the row 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.

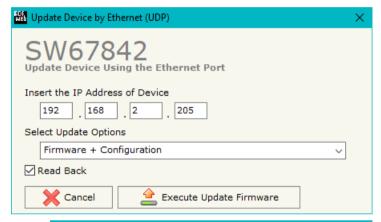
If you don't know the actual IP address of the device you have to use this procedure:

- 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", close the windows;
- → Put Dip1 of 'Dip-Switch A' at OFF position.

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 update.



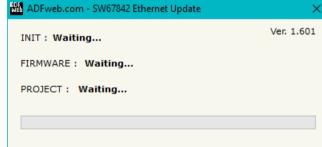


Figure 6: "Update device" windows



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Note:

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 HD67842 device.



Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67842 device.

Warning:

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;
- Check the Wi-Fi settings;
- → If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- → If you are using Windows Seven, Vista, 8 or 10 make sure that you have the administrator privileges;
- ♣ In case you have to program more than one device, using the "UDP Update", you have to cancel the ARP table every time you connect a new device on Ethernet. For do this you have to launch the "Command Prompt" and write the command "arp d". Pay attention that with Windows Vista, Seven, 8, 10 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.



Figure 7: "Protection" window

A

In the case of HD67842 you have to use the software "SW67842": www.adfweb.com\download\filefold\SW67842.zip.

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USE OF DALI CONSOLE SOFTWARE:

To configure DALI network and test the communication, it is possible to use the available software that runs with Windows called "DALI Console". It is downloadable on the site www.adfweb.com and its operation is described in this document. (This manual is referenced to the last version of the software present on our web site). The software works with MSWindows (XP, Vista, Seven, 8, 10; 32/64bit).

When launching the DALI Console, the window below appears (Fig. 8).

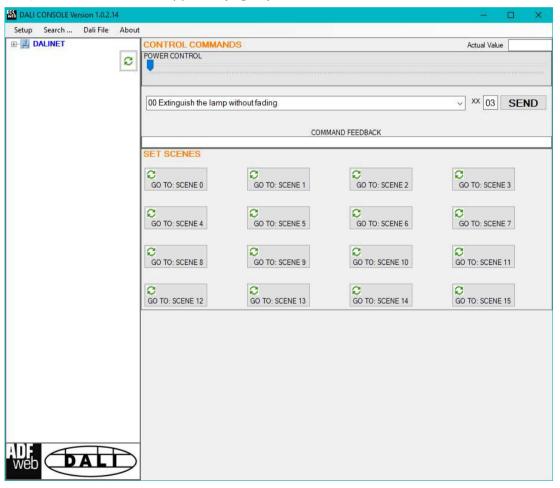


Figure 8: Main window for DALI Console

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STRUCTURE OF THE SOFTWARE:

The software layout is very simple and it is structured in this way:

- "Menu bar" (Fig. 9, Point 1): it is possible to open the setup window ("Setup" menu), scan the DALI network and program automatically the IDs ("Search..." menu), export/import the results of the communication ("Dali File" menu) and see the informations about the DALI Console software ("About" menu).
- "Network view" (Fig. 9, Point 2): it is possible to see all the DALI devices connected to the HD67842 converter, the groups and the scenes set;
- "Settings / commands view" (Fig. 9, Point 3): it is possible to set and manage the parameters to the single DALI device, to the groups or for the full network.

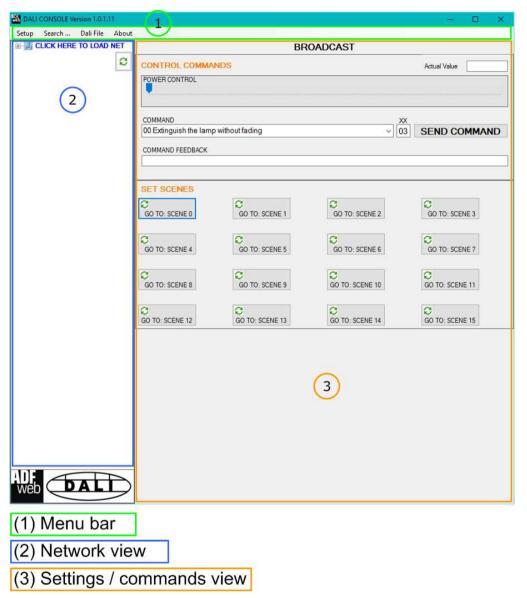


Figure 9: Structure of DALI Console software

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SETUP:

This section defines the connection's parameters to the Ethernet side of the HD67842 converter. By Pressing the "Setup" button from the menu bar of the DALI Console software, the "SETUP" window appears (Fig. 9).

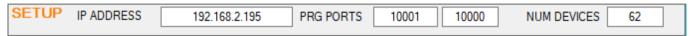


Figure 10: "Setup" window

The means of the fields for the "SETUP" window are:

- → In the field "DEVICE IP ADDRESS" the IP address set inside the converter is defined;
- ▶ In the field "PRG PORT" the communication ports used for the Ethernet communication with the converter is defined: the one on the left must be equal to the DALI Port programmed with SW67842, the one on the right must be fixed to '10000';
- ♣ In the field "NUM DEVICES" the number of connected DALI devices is defined.

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NETWORK SETTING:

By pressing the button in the Network view, it is possible to scan the full DALI network and find all the DALI devices, the groups set and the scenes configured.

By selecting the single DALI devices found, the single groups, the single scene or the entire DALI network, it is possible to manage and test the functioning of the network.

DEVICES:

The means of the fields for "DEVICE INFO" are:

- → In the field "Device Type" the type of DALI device is printed;
- → In the field "Software version" the software version of the DALI device is printed;
- ▼ In the fields "Power Range" Min value, Actual value, Max value, System Fail value, Power On value, Fade Time and Fade Rate of the DALI device is defined. It is possible to read the actual value and set a new value;
- In the fields "DEVICE STATUS" the actual status of the DALI device is printed;
- By clicking on "SET" buttons, it is possible to set the new parameters of the corresponding fields. By clicking "LOAD VALUES" it is possible to read the actual values set;
- → In the field "SET NEW ADDRESS" it is possible to program a new ID to the DALI node;

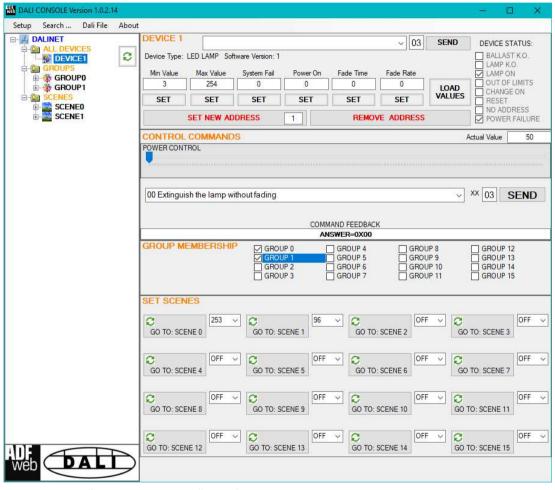


Figure 11: "Device settings" window

▶ In the field "REMOVE ADDRESS" it is possible to delete the ID from the DALI node.

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The means of the fields for the "CONTROL COMMANDS" section are:

- → In the "POWER CONTROL" bar it is possible to change the actual ADV of the selected DALI device;
- ▶ In the field "COMMAND" it is possible to select a DALI command to send to the selected DALI device. For set commands, it is possible to insert the value to set in the field "xx". As soon as the command to send is selected, the command is sent: in order to send the same command more times, it is possible to press the "SEND COMMAND" button;
- ▶ In the field "COMMAND FEEDBACK" the response from the DALI device is printed.



Note:

This section is used to test the functioning of the DALI device in the.

In the "GROUP MEMBERSHIP" section it is possible to see the Groups which the selected DALI device is in. The checked checkboxes mean that the device is in the correspondent groups, the unchecked checkboxes mean that the device is not included in the correspondent groups. It is possible to change the group settings for the selected DALI device by checking/unchecking the correspondent checkboxes.

In the "SET SCENES" section it is possible to see the programmed scenes of the selected DALI device, program new ones and activate them:

- → By pressing the buttons "GO TO: SCENE X" it is possible to activate the correspondent scene inside the selected DALI device; the programmed ADV for the selected scene is defined in the drop-down list on the right;
- → By selecting a value into the drop-down lists next to the "GO TO: SCENE x" buttons, it is possible to set the ADV associated to the correspondent scene. It is possible to select:
 - o Value between 0 and 255: the scene will have the defined value of ADV;
 - o ACT: the scene will take the programmed ADV value into the "POWER CONTROL" bar;
 - o OFF: the scene is disabled.

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GROUPS:

The means of the fields for the "CONTROL COMMANDS" section are:

- → In the "POWER CONTROL" bar it is possible to change the actual ADV of the selected DALI group;
- → In the field "COMMAND" it is possible to select a DALI command to send to the selected DALI group. For set commands, it is possible to insert the value to set in the field "xx". As soon as the command to send is selected, the command is sent: in order to send the same command more times, it is possible to press the "SEND COMMAND" button;
- → In the field "COMMAND FEEDBACK" the response from the DALI group is printed.

Note:

This section is used to test the functioning of the DALI groups in the network.

In the "SET SCENES" section it is possible to activate the programmed scenes to the selected group:

→ By pressing the buttons "GO TO: SCENE X" it is possible to activate the correspondent scene inside the selected DALI group.

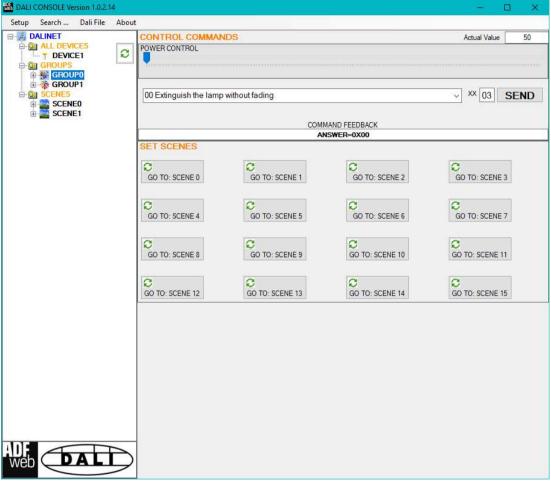


Figure 12: "Groups settings" window

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SCENES:

By selecting a DALI scene from the Network view, it is possible to see the devices that have programmed the selected scene.

It is also possible to activate it by pressing the "ACTIVATE SCENE X" button.

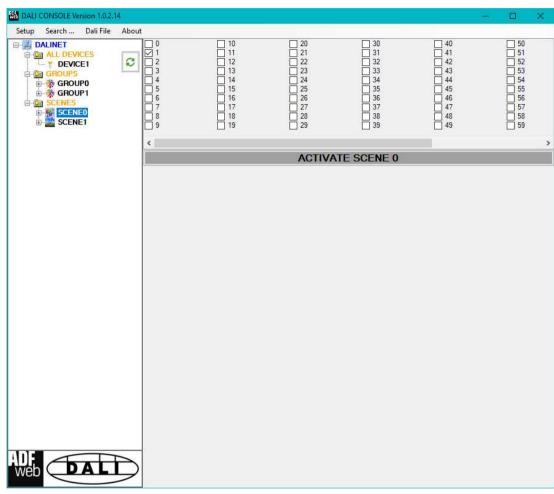


Figure 13: "Scenes settings" window

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ALL DEVICES (BROADCAST):

The means of the fields for the "CONTROL COMMANDS" section are:

- → In the "POWER CONTROL" bar it is possible to change the actual ADV of the entire DALI network;
- → In the field "COMMAND" it is possible to select a DALI command to send to the entire DALI network. For set commands, it is possible to insert the value to set in the field "xx". As soon as the command to send is selected, the command is sent: in order to send the same command more times, it is possible to press the "SEND COMMAND" button;
- → In the field "COMMAND FEEDBACK" the response from the DALI network is printed.

Note:

This section is used to test the functioning of the DALI network.

In the "SET SCENES" section it is possible to activate the programmed scenes into all the DALI devices that have them:

→ By pressing the buttons "GO TO: SCENE X" it is possible to activate the correspondent scene in the DALI network. Only the devices that have it will accept the command.

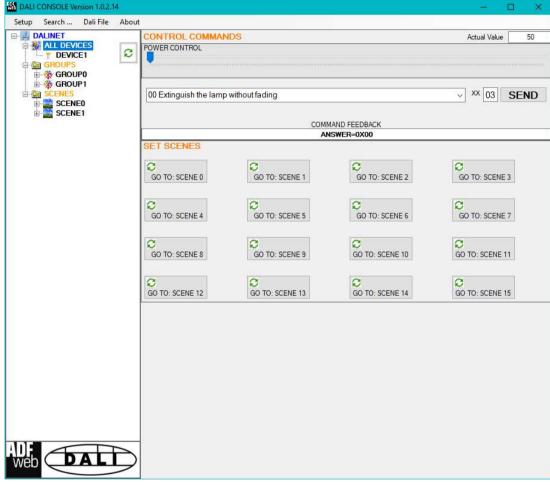


Figure 14: "Broadcast settings" window

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DATA MAPPING:

Internally to the converter, there are two different arrays of bytes. The data inside them are different:

- Array in IN: data read from DALI network;
- → Array in OUT: data written to DALI network.

It is possible to link the bytes of these internal arrays to the specific Modbus requests using the "Position" and "Start Bit" fields of "Set Modbus Access" tables.

The data to be written on Modbus will be taken from the Array in IN and the data read from Modbus will be mapped into the Array in OUT.

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Structure of the Array in IN (data that the converter will write to Modbus)

For each DALI node configured, the converter will reserve 8 bytes. Below, it is possible to see the generic structure of 8 bytes reserved for each DALI node:

Offset	Description
0	Status of DALI node
1	ADV of DALI node
2	Response received after command from DALI node
3	 → Bit 0, 1, 2, 3 (least significant) = Type of DALI node → Bit 4, 5, 6, 7 (most significant) = Version of DALI node
4	Min. settable value of DALI node

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5	Max. settable value of DALI node
6	Each bit has a different meaning. '0' means 'Group not configured', '1' means 'Group configured'. Bit 0 (less significant) = Group 0 Bit 1 = Group 1 Bit 2 = Group 2 Bit 3 = Group 3 Bit 4 = Group 4 Bit 5 = Group 5 Bit 6 = Group 6 Bit 7 (most significant) = Group 7
7	 → Bit 0 (least significant) = Group 8 → Bit 1 = Group 9 → Bit 2 = Group 10 → Bit 3 = Group 11 → Bit 4 = Group 12 → Bit 5 = Group 13 → Bit 6 = Group 14 → Bit 7 (most significant) = Group 15

Structure of the Array in OUT (data that the converter will read from Modbus)

ADV SETTING FOR SINGLE DALI NODES		
Internal byte	Description	
0	ADV to set on DALI node 0	
1	ADV to set on DALI node 1	
2	ADV to set on DALI node 2	
3	ADV to set on DALI node 3	
4	ADV to set on DALI node 4	
5	ADV to set on DALI node 5	
6	ADV to set on DALI node 6	
7	ADV to set on DALI node 7	
8	ADV to set on DALI node 8	
9	ADV to set on DALI node 9	
10	ADV to set on DALI node 10	
11	ADV to set on DALI node 11	
12	ADV to set on DALI node 12	
13	ADV to set on DALI node 13	
14	ADV to set on DALI node 14	
15	ADV to set on DALI node 15	
16	ADV to set on DALI node 16	
17	ADV to set on DALI node 17	
18	ADV to set on DALI node 18	
19	ADV to set on DALI node 19	
20	ADV to set on DALI node 20	



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ADV to set on DALI node 21
ADV to set on DALI node 22
ADV to set on DALI node 23
ADV to set on DALI node 24
ADV to set on DALI node 25
ADV to set on DALI node 26
ADV to set on DALI node 27
ADV to set on DALI node 28
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ADV to set on DALI node 38
ADV to set on DALI node 39
ADV to set on DALI node 40
ADV to set on DALI node 41
ADV to set on DALI node 42
ADV to set on DALI node 43
ADV to set on DALI node 44
ADV to set on DALI node 45



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ADV to set on DALI node 46 ADV to set on DALI node 47
ADV to set on DALI node 48
ADV to set on DALI node 49
ADV to set on DALI node 50
ADV to set on DALI node 51
ADV to set on DALI node 52
ADV to set on DALI node 53
ADV to set on DALI node 54
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ADV to set on DALI node 59
ADV to set on DALI node 60
ADV to set on DALI node 61
ADV to set on DALI node 62
ADV to set on DALI node 63

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ADV SETTING FOR GROUPS		
Internal byte	Description	
64	ADV to set on Group 0	
65	ADV to set on Group 1	
66	ADV to set on Group 2	
67	ADV to set on Group 3	
68	ADV to set on Group 4	
69	ADV to set on Group 5	
70	ADV to set on Group 6	
71	ADV to set on Group 7	
72	ADV to set on Group 8	
73	ADV to set on Group 9	
74	ADV to set on Group 10	
75	ADV to set on Group 11	
76	ADV to set on Group 12	
77	ADV to set on Group 13	
78	ADV to set on Group 14	
79	ADV to set on Group 15	



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ADV SETTING (BROADCAST)	
Internal byte	Description
80	ADV to set

Note:

The range of ADV can be from 0 to 255. The minimum and the maximum value of the ADV for each DALI node depends on the setting of the DALI node. These values can be programmed using "DALI Console" software.

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SCENE CONTROL	
Internal byte	Description
128	Control byte: it must be increased of +1 every times that the command must be sent on DALI.
129	ID of DALI device to command (for commands, most significant bit must be set to '1' as DALI specifications):
	 → 0-63 = Single DALI device → 64-79 = Groups → 127 = Broadcast
130	Scene to control:

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MECHANICAL DIMENSIONS:

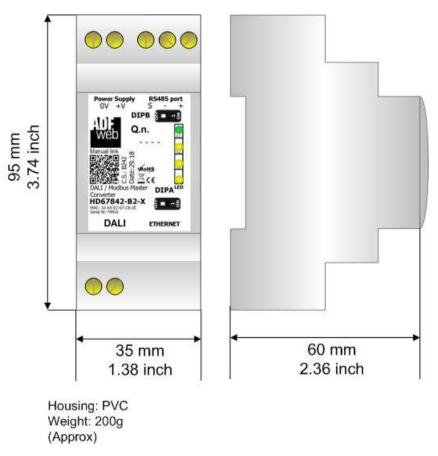
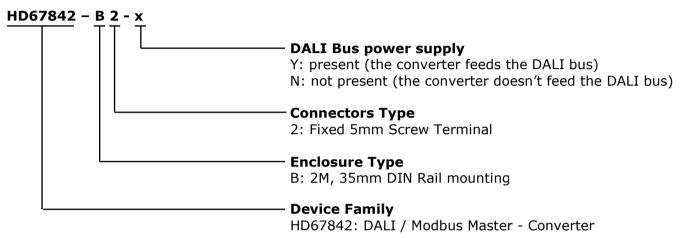


Figure 15: Mechanical dimensions scheme for HD67842-B2-x

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ORDERING INFORMATIONS:

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



Order Code: **HD67842-B2-Y** - DALI / Modbus Master – Converter (DALI bus power supply present)

Order Code: HD67842-B2-N - DALI / Modbus Master - Converter (DALI bus power supply not present)

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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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 **ROHS** and electronic equipment (commonly referred to as Restriction of Hazardous Substances Directive or RoHS).

CE MARKING



The product conforms with the essential requirements of the applicable EC directives.

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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 www.adfweb.com. 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 www.adfweb.com. Together with the request, you need to provide detailed information about the problem.
- → Send the product to the address provided with the PRN, having prepaid the shipping costs (shipment costs billed to us will not be accepted).

If the product is within the warranty of twelve months, it will be repaired or exchanged and returned within three weeks. If the product is no longer under warranty, you will receive a repair estimate.



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