

User Manual OPC UA Client / KNX

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User Manual

Revision 1.000 Enalish

OPC UA Client / KNX - Converter

(Order Code: HD67B18-B2)

for Website information: http://www.adfweb.com/?Product=HD67B18

for Price information: http://www.adfweb.com/?Price=HD67B18-B2

Benefits and Main Features:

- Triple electrical isolation
- Power Supply 18...35V DC and 8...24 V AC
- Temperature range: -40°C/+85°C (-40°F/+185°F) 0



For others OPC UA Client devices, see also the following links:

OPC UA Client from/to ...

www.adfweb.com?Product=HD67B08 www.adfweb.com?Product=HD67B09 www.adfweb.com?Product=HD67B10 www.adfweb.com?Product=HD67B11 www.adfweb.com?Product=HD67B12 www.adfweb.com?Product=HD67B13 www.adfweb.com?Product=HD67B14 www.adfweb.com?Product=HD67B15 www.adfweb.com?Product=HD67B16 www.adfweb.com?Product=HD67B17 www.adfweb.com?Product=HD67B19 www.adfweb.com?Product=HD67B20 www.adfweb.com?Product=HD67B21 www.adfweb.com?Product=HD67B22 www.adfweb.com?Product=HD67B23

(Serial) (Modbus Slave) (Modbus TCP Slave) (BACnet) (CAN) (CANopen) (DeviceNet Slave) (DMX) (EtherNet/IP Slave) (J1939) (MOTT) (NMEA0183) (NMEA2000) (**PROFINET**) (SNMP Agent)

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

Do you need to choose a device? do you want help? Ask it to the following link: 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 <u>www.adfweb.com/download/</u> and search for the corresponding code on the page. Click on the proper "Document Code" and download the updates.

REVISION LIST:

Revision	Date	Author	Chapter	Description
1.000	13/03/2019	Tf	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

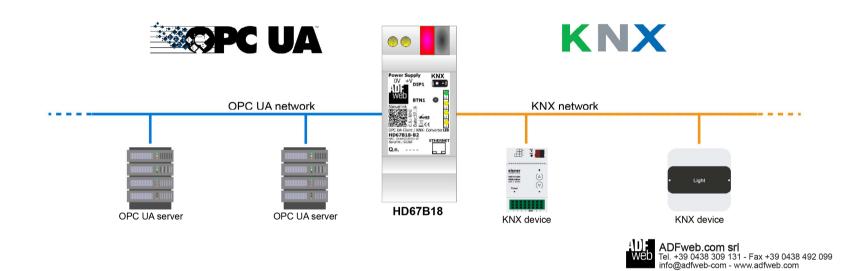
The declaration is made by our company. You can send an email to <u>support@adfweb.com</u> or give us a call if you need it.



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EXAMPLE OF CONNECTION:





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CONNECTION SCHEME:

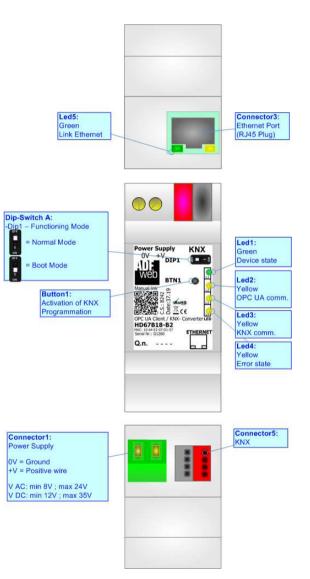


Figure 1: Connection scheme for HD67B18-B2



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CHARACTERISTICS:

The HD67B18-B2 is a OPC UA Client / KNX converter.

It allows the following characteristics:

- ✤ Up to 1500 bytes in reading and 1500 bytes in writing;
- Two-directional information between KNX and OPC UA;
- 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 SW67B18 software on your PC in order to perform the following:

- Define the parameter of OPC UA;
- Define the parameter of KNX line;
- Define the list of OPC UA servers connected to the converter;
- Define the list of KNX objects accessible on KNX side;
- Update the device.



POWER SUPPLY:

The devices can be powered between a wide range of tensions. For more details see the two tables below.

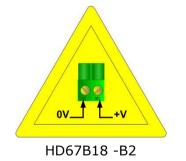
	VAC	\sim	VDC	
	Vmin	Vmax	Vmin	Vmax
HD67B18-B2	8V	24V	12V	35V

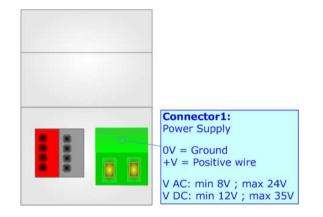
Consumption at 24V DC:

	Device	W/VA
HD67B18-	B2	4



Caution: Not reverse the polarity power







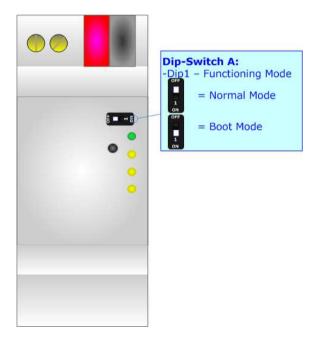
FUNCTION MODES:

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

- ✤ The first, with Dip1 in Off position (factory setting), is used for the normal working of the device.
- The second, with Dip1 in On position, is used for upload the Project/Firmware.

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

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

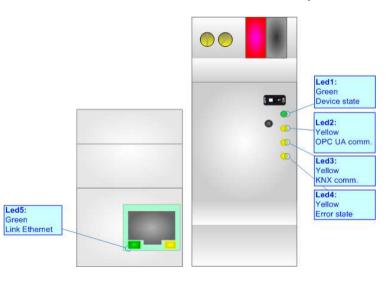




LEDS:

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: OPC UA comm. (yellow)	Flashing: OPC UA response OFF: No OPC UA response	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: KNX comm. (yellow) Flashing: KNX communication OFF: No KNX communication		Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Error state (yellow)	ON: At least one OPC UA Server is disconnected OFF: all OPC UA Servers are connected	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Link Ethernet (green)	ON: Ethernet cable connected OFF: Ethernet cable disconnected	ON: Ethernet cable connected OFF: Ethernet cable disconnected





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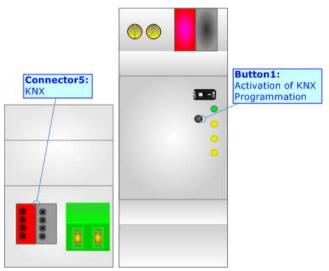
KNX:

KNX is the standard that allows the automated and decentralized management of the technologic plans of a big typology of structures: commercial buildings, factories, houses, public locals, schools and so on.

KNX can be used in all the applications and functions for the building automations: from lighting to control dampers, to the security, to the heating monitoring, to the conditioning, to the hydric control and alarms, to energy management and so on.

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

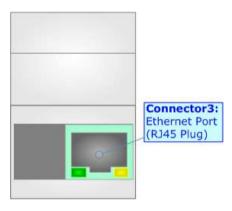
(*) Taken from KINX specifications





ETHERNET:

The Ethernet connection must be made using Connector3 of HD67B18-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/PLC/other is recommended the use of a cross cable.





USE OF COMPOSITOR SW67B18:

To configure the Converter, use the available software that runs with Windows called SW67B18. 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 SW67B18, the window below appears (Fig. 2).



It is necessary to have installed .Net Framework 4.

Begin	Opened Configuration of the Con Example1	iverter :	
Step 1	New Configuration	Open Configuration	
Step 2	Set Communication		
Step 3	OPC UA Client Access		
Step 4	KNX Access		
Step 5	Y Update Device UDP		www.ADFweb.co
Step 5	X Update Device UDP		www.ADFwe

Figure 2: Main window for SW67B18



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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 "OPC UA Client / KNX Converter" in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button "Open Configuration".

SW67B18		
Open an Existing Configuration		
List of Avaliable Configurations		
Example1 Example2	- m	
Example3		



Software Options

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
sof	twar	e.										

	67B18
Language	Connection Options Software Settings
Selected	Language :
*	English
	Page 1 / 1
V	OK X Cancel

	67B18		×
Language	Connection Options	Software Settings	
	Internet Connection	at Start of Program] [[[[[[[
V	ок 🗙 с	Cancel	

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 SW67B18 check automatically if there are updatings when it is launched.



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Software Optio	ns		×
SW67			
Language Conn	ection Options	Software Settings	
a second a second to a second to a		ables by pressing th	Answer D. C. Avenue D. S. C.
🔷 ок	×	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.



SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, OPC UA and KNX.

By Pressing the "**Set Communication**" button from the main window for SW67B18 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "OPC UA Client" are:

- In the field "IP Address" the IP address for OPC UA side of the converter is defined;
- In the field "SubNet Mask" the SubNet Mask for OPC UA 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 "DNS" the IP Address of the DNS server is defined. This feature can be enabled or disabled pressing the Check Box field.

The means of the fields for "KNX" are:

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

The means of the fields for "NTP (Network Time Protocol)" are:

- ✤ In the field "Server URL" the URL or the IP Address of the NTP Server is defined;
- In the field "Poll Time (seconds)" the polling time for the time synchronization is defined.

1. OPC UA Client		
IP Address	192 .168 .0 .5	
SubNet Mask	255 .255 .255 .0	
Gateway	192 .168 .0 .1	
DNS	8.8.8.8	
2. KNX		
Туре	KNX TP	
ID Device	1.1.200	
3. NTP (Network	Time Protocol)	
Server URL	pool.ntp.org	
Poll Time (seconds)	10000	

Figure 3: "Set Communication" window



OPC UA ACCESS:

By Pressing the "**OPC UA Client Access**" button from the main window for SW67B18 (Fig. 2) the window "OPC UA Client Access" appears (Fig. 4).

This section is used to define the list of the OPC UA Servers to read/write with the OPC UA Client.

	LP UA CITE	nt Access										×
		7B18										
OPC	UA Serv	er List		10				~	2		14	75
1	Enable	Server Address		Authorization	User	Password	Certificate	Private K	ey Security Type	Security Policy	Mnemonic	
1		opc.tcp://192.168.3	2,58:4840	Anonymous					None	None		
2		opc.tcp://192.168.2	2.184:4840	Username and	root	root			None	None	ai	
Linnin	VA Varia	ables List	todify	X Delete	Scan							
OPC Varia	UA Vari bles in R	ables List ead Variable:	s in Write	····	~	Name Space Index	Time (ms)	Position	Mnemonic			
OPC Varia	UA Varia bles in R Enable	ables List		Node ID	Var Type	Name Space Index	Time (ms)	Position 0	Mnemonic a1			
OPC Varia N	UA Varia bles in R Enable	ables List ead Variable: Display Name	s in Write Node Type	Node ID	Var Type		10 Later in State State	Net Marchallor				
OPC Varia N 1 2	UA Varia bles in R Enable	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			
OPC Varia N 1 2 3	UA Varia bles in R Enable	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			
OPC Varia N 1 2 3 4	UA Varia bles in R Enable	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			
OPC Varia N 1 2 3 4 5 5	UA Varia bles in R Enable 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			
OPC Varia N 1 2 3 4 5 6 7	UA Varia bles in R Enable V V V V V V V V	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			
OPC Varia N 1 2 3 4 5 6 7 8	UA Varis bles in R Enable M M M M M M M M M M M M M M	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			
OPC Varia N 1 2 3 4 5 5 6 7 8 8 9	UA Varia bles in R Enable V V V V V V V V	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			
OPC	UA Varis bles in R Enable M M M M M M M M M M M M M M	ables List ead Variables Display Name Temperature	s in Write Node Type String	Node ID _System.General.T	Var Type Float	3	1000	0	al			

Figure 4: "OPC UA Client Access" window



By clicking on "Add", it is possible to add a new OPC UA Server inserting its characteristics (Server Address, Authorization, Security Type...). The window "Add OPC UA Server" appears (Fig. 5). By clicking on "Modify", it is possible to change these characteristics for the selected Server. The window "Modify OPC UA Server" appears (Fig. 6).

He Add OPC UA Server	×	Modify OPC UA Se	rver >	×
SW67B		SW67E	318	
Enable OPC UA S	Gerver	Enable OPC UA	Server	
Server Address	opc.tcp://192.168.2.58:4840	Server Address	opc.tcp://192.168.2.58:4840	
Authorization	Anonymous 🗸	Authorization	Anonymous ~	
Security Type	None ~	Security Type	None	
Security Policy	None	Security Policy	None	
Mnemonic		Mnemonic		
🗸 ок	Cancel	🗸 ок	Cancel	

Figure 5: "Add OPC UA Server"

Figure 6: "Modify OPC UA Server"



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By clicking on "Scan", it is possible to get the list of available variables from the selected Server. The window "Scan Server OPC UA" appears (Fig. 7).

W6								
Read	Write	Display Name	Node Type	Node Identifier	Data Type	Name Space Index	Read/Write	
		Temperature	String	_System.General.Temperature	Float	3	Read	
		R_Byte_68	String	S7.Tabella delle variabili_1.R_Byte_68	UInt8	2	Read/Write	
		R_Byte_69	String	S7.Tabella delle variabili_1.R_Byte_69	UInt8	2	Read/Write	
		R_Word_70	String	S7.Tabella delle variabili_1.R_Word_70	UInt16	2	Read/Write	
		R_Real_72	String	S7.Tabella delle variabili_1.R_Real_72	UInt32	2	Read/Write	
		R_Int16_76	String	S7.Tabella delle variabili_1.R_Int16_76	UInt16	2	Read/Write	
		R_Int32_78	String	S7.Tabella delle variabili_1.R_Int32_78	UInt32	2	Read/Write	
		R_Bit_82.0	String	S7.Tabella delle variabili_1.R_Bit_82.0	Boolean	2	Read/Write	
		R_Bit_82.1	String	S7.Tabella delle variabili_1.R_Bit_82.1	Boolean	2	Read/Write	

Figure 7: "Scan Server OPC UA" window

The means of the checkboxes inside the table are:

- If the field "Read" is checked, the variable can be read;
- ✤ If the field "Write" is checked, the variable can be written.

Note:

For each variable, it is possible to uncheck these fields and the variable will not be used in read/write.



After the scan, the selected variables will appear in "Variables in Read" and/or "Variables in Write" sections, in the lower part of the window "OPC UA Client Access" (Fig. 4).

The "Variables in Read" section is used to define the OPC UA variables to read from KNX side (Fig. 8).

N	Enable	Display Name	Node Type	Node ID	Var Type	Name Space Index	Time (ms)	Position	Mnemonic	
1		Temperature	String	_System.General.T	Float	3	1000	0		
2		R_Byte_68	String	S7.Tabella delle	UInt8	2	2000	4		
3		R_Byte_69	String	S7.Tabella delle	UInt8	2	2000	5		
4		R_Word_70	String	S7.Tabella delle	UInt16	2	2000	6		
5		R_Real_72	String	S7.Tabella delle	UInt32	2	2000	8		
6		R_Int16_76	String	S7.Tabella delle	UInt16	2	2000	12		
7		R_Int32_78	String	S7.Tabella delle	UInt32	2	2000	14		
8		R_Bit_82.0	String	S7.Tabella delle	Boolean	2	2000	18		
9		R_Bit_82.1	String	S7.Tabella delle	Boolean	2	2000	19		
10		R_Bit_82.2	String	S7.Tabella delle	Boolean	2	2000	20		
11		R Bit 82.3	String	S7.Tabella delle	Boolean	2	2000	21		

Figure 8: "Variables in Read" section

The means of the fields are:

- If the field "Enable" is checked, the OPC UA variable is enabled;
- In the field "Display name" the name of the OPC UA variable is defined;
- In the field "Node Type " the type of the OPC UA node, which includes the variable, is defined;
- In the field "Node ID" the name of the OPC UA node, which includes the variable, is defined;
- In the field "Var Type" the data format of the OPC UA variable is defined;
- In the field "Name Space Index" the Name Space Index of the node, which includes the variable, is defined;
- In the field "Time (ms)" the delay in ms between two readings of the variable is defined;
- In the field "Position" the starting byte of the internal memory arrays where saving the value is defined;
- ✤ In the field "Mnemonic" a description of the variable is defined.



The "Variables in Write" section is used to define the OPC UA variables to write from KNX side (Fig. 9).

N	Enable	Display Name	Node Type	Node ID	Var Type	Name Space Index	On Change	On CMD	On Timer	Time (ms)	Position	Mnemonic	
L.		R_Byte_68	String	S7.Tabella delle	UInt8	2				0	0		
2		R_Byte_69	String	S7.Tabella delle	UInt8	2				0	1		
3		R_Word_70	String	S7.Tabella delle	UInt16	2				0	2		
4		R_Real_72	String	S7.Tabella delle	UInt32	2				0	4		
5		R_Int16_76	String	S7.Tabella delle	UInt16	2				0	8		
5		R_Int32_78	String	S7.Tabella delle	UInt32	2				0	10		
,		R_Bit_82.0	String	S7.Tabella delle	Boolean	2				0	14		
B		R_Bit_82.1	String	S7.Tabella delle	Boolean	2				0	15		
9		R_Bit_82.2	String	S7.Tabella delle	Boolean	2				0	16		
10		R_Bit_82.3	String	S7.Tabella delle	Boolean	2				0	17		
1		R Bit 82.4	String	S7.Tabella delle	Boolean	2				0	18		

Figure 9: "Variables in Write" section

In "Variables in Write" section (Fig. 8), the means of the fields are:

- If the field "Enable" is checked, the OPC UA variable is enabled;
- In the field "Display name" the name of the OPC UA variable is defined;
- In the field "Node Type " the type of the OPC UA node, which includes the variable, is defined;
- In the field "Node ID" the name of the OPC UA node, which includes the variable, is defined;
- In the field "Var Type" the data format of the OPC UA variable is defined;
- In the field "Name Space Index" the Name Space Index of the node, which includes the variable, is defined;
- ✤ If the field "On Change" is checked, the OPC UA variable is sent when the data on KNX changes the value;
- If the field "On CMD" is checked, the OPC UA variable is sent when a KNX request is received;
- If the field "On Timer" is checked, the OPC UA variable is sent cyclically;
- In the field "Time (ms)" the delay in ms between two writings of the variable is defined (if "On Timer" is checked);



- In the field "Position" the starting byte of the internal memory arrays where getting the value is defined;
- ✤ In the field "Mnemonic" a description of the variable is defined.

<u>Note:</u>

By clicking on "Auto Pos", the position of the internal memory arrays where saving/getting the value of variable is automatically calculated.

Note:

A variable can be added manually in "Variables in Read" and/or "Variables in Write" sections without scanning the OPC UA Server.



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KNX ACCESS:

By pressing the "KNX Access" button from the main window for SW67B18 (Fig. 2) the "KNX Access" window appears (Fig. 10).

The means of the fields are:

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

		7B18	3														
KN	Enable		Dest/Group	APCI	Priority	Format	Extended	ReTest	OnCMD	OnChange	OnTimer	Poll Time	Position	Bit Mode	Length	Mnemonic	
1		2.4.8	31/7/255	4	Normal	None						1000	0	No	2		
2																	
																	-
																	-
																1	

Figure 10: "KNX Set Access" window

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



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

/ <u>Note:</u>

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

<u>/ Note:</u>

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



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)	×
SW67B18 Update Device Using the Ethernet Port Insert the IP Address of Device 192 . 168 . 2 . 205 Select Update Options	
Firmware + Configuration	~
Read Back	
Cancel 🔄 Execute Update Firmware	
ADFweb.com - SW67B18 Ethernet Update	×
INIT : Waiting	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	

Figure 11: "Update device" windows



/ <u>Note:</u>

When you receive the device, for the first time, you also have to update the Firmware in the HD67B18 device.

Warning:

If Fig. 12 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.

👪 ADFweb.com - SW67B18 Ethernet Update	×
INIT : Device Not Found	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	
ADFweb.com - SW67B18 Ethernet Update	×
INIT : PROTECTION	× Ver. 1.602
INIT : PROTECTION	
INIT : PROTECTION FIRMWARE : Waiting	

Figure 12: "Error" window

<u>Warning:</u>

In the case of HD67B18 you have to use the software "SW67B18": <u>www.adfweb.com\download\filefold\SW67B18.zip</u>.



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MECHANICAL DIMENSIONS:

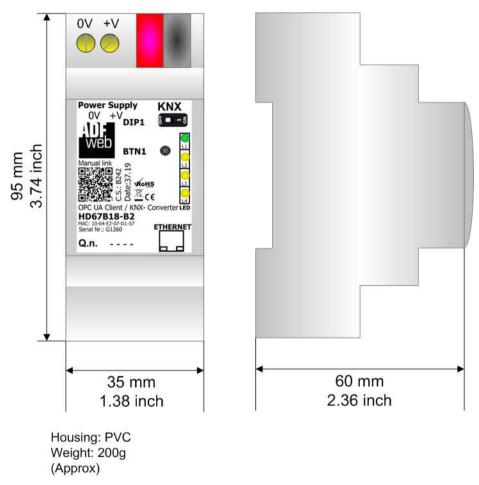


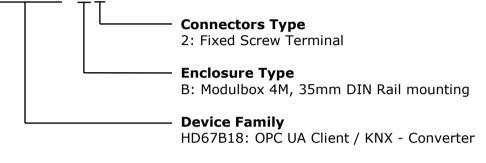
Figure 13: Mechanical dimensions scheme for HD67B18-B2



ORDERING INFORMATIONS:

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

HD67B18 – B 2



Order Code: HD67B18-B2 - OPC UA Client / KNX – Converter

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



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.



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.

