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# ***ELAUSYS***

# ***NXG-KNX***

## **KNX Interface for Interlogix Alarm Systems**


### **User Manual**



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## 1. INTRODUCTION

The KNX interface module NXG-KNX is a KNX gateway for the Interlogix ultraSync alarm systems (NetworXConnect, xGen and ZeroWire) from UTC Fire & Security. It enables bidirectional communication with the alarm system over Ethernet.


It allows integrators to take advantage of a fully integrated alarm system including KNX scenarios, automatic lighting using the motion detectors, arming or monitoring the system using a KNX visualization.

Main features:

- KNX Interface for Interlogix ultraSync (NetworXConnect, xGen and ZeroWire)
- Up to **96 zone status**
- Control up to **4 areas** (arm/partial/disarm)
- 9 status per area (alarm, entry, exit, fire,...)
- Recall of KNX **scenes** for each status
- Battery and AC Failure monitoring
- Connected to the alarm system over Ethernet
- Galvanic insulation from the KNX bus
- DIN rail mounted
- Auxiliary power supply 12-30VDC

By default, zone status is configured for zone 1 to 96 of the alarm system. A general parameter allows to change for zone 97 to 192. Having then the possibility to use two gateways in the same installation to cover the 192 zones of the alarm system.

In the same way, areas are configured for areas 1 to 4 of the alarm system but a parameter allows to change the area number to cover the areas 5 to 8 if required.

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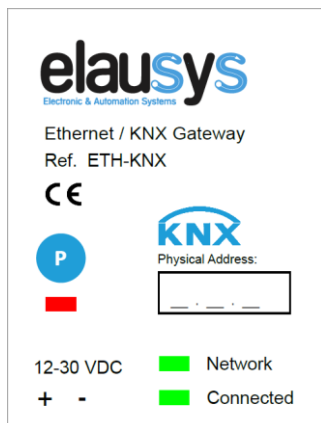
## 2. OVERVIEW

### 2.1 CONNECTION DIAGRAM

The KNX bus is connected on the top side of the gateway.  
An external power supply 12-30VDC is required and connected on the bottom side of the module, beside the RJ45 connector for the ethernet cable.




### 2.2 FRONT PANEL



The front panel is equipped with two green status LED:

Network: Physical connection to the ethernet network is established.  
Connected: Communication with the alarm system is established.

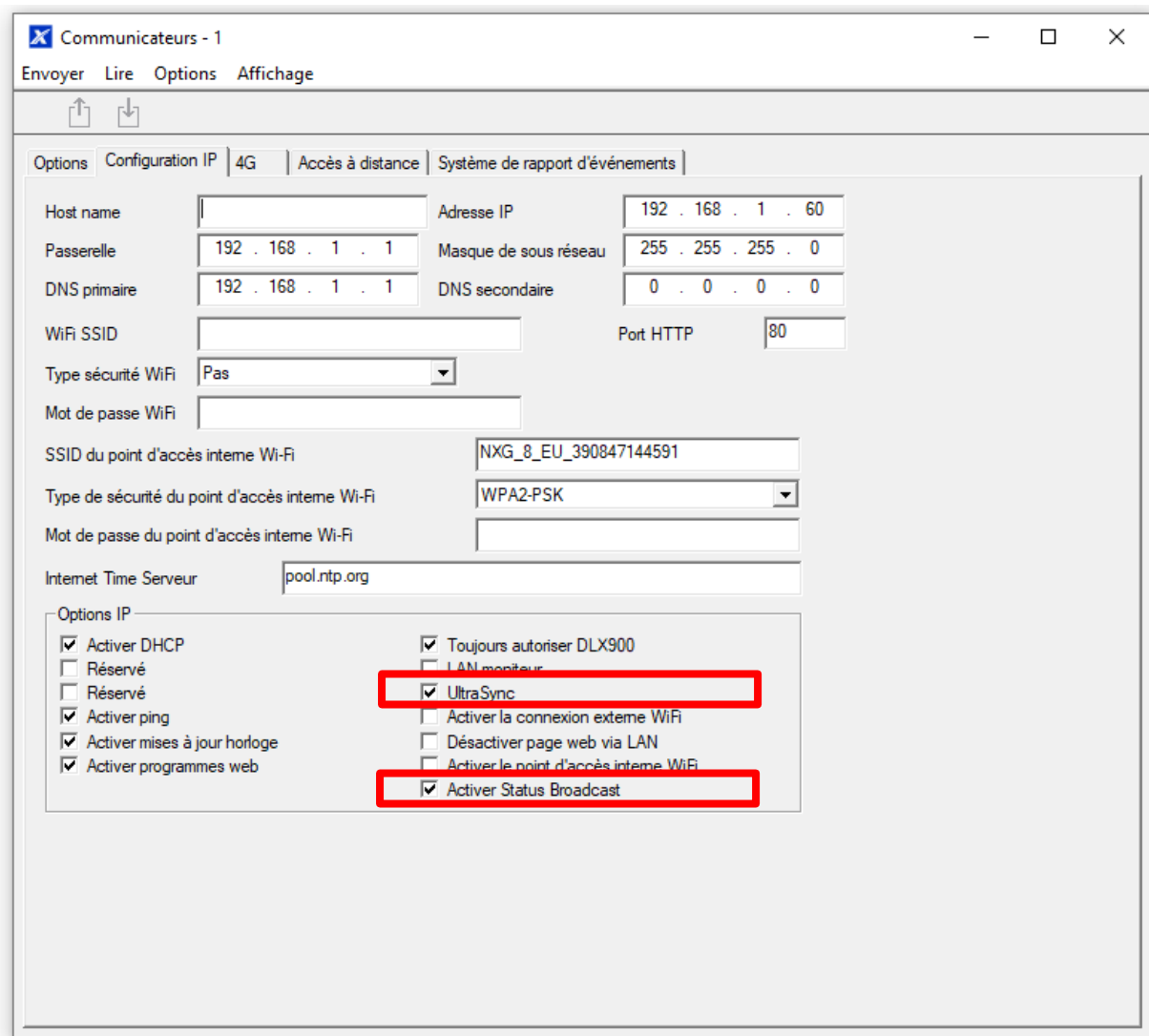
Button "P" : KNX Programming mode button  
Red LED : KNX Programming status LED

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### 2.3 CONFIGURING THE NXG Alarm system

On the alarm system, a specific user named “knx” must be created for the communication with the gateway. The pin code assigned to the user “knx” must be also set into the ETS parameter “User code”, see next chapter for the ETS parameters.

In the IP communication settings, “UltraSync” and “Status Broadcast” must be enabled.




The screenshot shows the 'Communicateurs - 1' configuration window. The 'Options IP' section is expanded, and the following options are checked and highlighted with red boxes:

- UltraSync
- Activer Status Broadcast

Other visible settings include:

- Host name: [ ]
- Adresse IP: 192 . 168 . 1 . 60
- Passerelle: 192 . 168 . 1 . 1
- Masque de sous réseau: 255 . 255 . 255 . 0
- DNS primaire: 192 . 168 . 1 . 1
- DNS secondaire: 0 . 0 . 0 . 0
- WiFi SSID: [ ]
- Port HTTP: 80
- Type sécurité WiFi: Pas
- Mot de passe WiFi: [ ]
- SSID du point d'accès interne Wi-Fi: NXG\_8\_EU\_390847144591
- Type de sécurité du point d'accès interne Wi-Fi: WPA2-PSK
- Mot de passe du point d'accès interne Wi-Fi: [ ]
- Internet Time Serveur: pool.ntp.org

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### 3. PARAMETERS

The KNX interface parameters are defined in the “parameters” tab of the device, in the ETS project.


#### 3.1 GENERAL SETTINGS

The following parameters are defined in the General section of the device parameters:

PARAMETER	VALUES	DESCRIPTION
Use PG Control	<ul style="list-style-type: none"> <li>▪ <b>Not used (default)</b></li> <li>▪ Used</li> </ul>	This parameter must be set to “Not used” for the NXG interface. <b>PG Control is not available on this device.</b>
Use PG Status	<ul style="list-style-type: none"> <li>▪ <b>Not used (default)</b></li> <li>▪ Used</li> </ul>	This parameter must be set to “Not used” for the NXG interface. <b>PG Status is not available on this device.</b>
Number of PG	<ul style="list-style-type: none"> <li>▪ <b>16 (default)</b></li> <li>▪ 32</li> </ul>	<b>PG are not available on this device.</b>
Use Zone Status	<ul style="list-style-type: none"> <li>▪ Not used</li> <li>▪ <b>Used (default)</b></li> </ul>	When this parameter is set to “Used”, the zone status group objects are made available.
Number of zones	<ul style="list-style-type: none"> <li>▪ <b>16 (default)</b></li> <li>▪ 32</li> <li>▪ 48</li> <li>▪ 64</li> <li>▪ 72</li> <li>▪ 96</li> </ul>	Number of zone status group objects to be used.
Zones offset	<ul style="list-style-type: none"> <li>▪ <b>0 (default)</b></li> <li>▪ 96</li> </ul>	An offset of 0 will use zones 1 to 96 from the alarm system whereas an offset of 96 will use zones 97 to 192

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Use Virtual inputs	<ul style="list-style-type: none"> <li>▪ <b>Not used (default)</b></li> <li>▪ Used</li> </ul>	This parameter must be set to “Not used” for the NXG interface. <b>Virtual inputs are not available on this device.</b>
Number of areas	<ul style="list-style-type: none"> <li>▪ <b>1 (default)</b></li> <li>▪ 2</li> <li>▪ 3</li> <li>▪ 4</li> </ul>	Number of areas to control/monitor from the KNX interface
Send area status	<ul style="list-style-type: none"> <li>▪ ON</li> <li>▪ OFF</li> <li>▪ <b>ON/OFF (default)</b></li> </ul>	Area status object can be configured to send only the changes to ON values, only the changes to OFF values or both ON and OFF values
User code	Text field (format 123456)	User code for user “knx” from the alarm system.
User code lenght	4..6	Number of digits for the user code
Use Power supply status	<ul style="list-style-type: none"> <li>▪ <b>Not used (default)</b></li> <li>▪ Used</li> </ul>	When this parameter is set to “Used”, the power supply stauts group objects aobjects are made available.
PG and Zone startup behavior	<ul style="list-style-type: none"> <li>▪ <b>Switch OFF (default)</b></li> <li>▪ Switch ON</li> <li>▪ Memory</li> </ul>	Internal status of group object after restart. Memory will restore the state of group objects before power lost.
Device Options	Text string	<b>Device options are not available on this device.</b>

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### 3.2 ZONE

Depending the general parameter “Number of zones”, up to 96 zones are listed in the group objects.

The status of each zone from the alarm system can be monitored by a Group object.

The general parameter “Zones offset” allow to use zones 1 to 96 from the alarm system or zones 97 to 192.

### 3.3 AREA

Depending the general parameter “Number of areas”, up to 4 areas are listed in the group objects.

Each area can be controlled by using the 3 group objects: Arm, partial arm or disarm. Several statuses are available and have a dedicated group object.

CONTROL OBJECT	VALUE ON	VALUE OFF
Arm (switch)	Arm	Disarm
Partial arm (switch)	Partial Arm	Disarm
Disarm (trigger)	Disarm	Disarm

For each area, a tab is made visible to configure the area parameters.


Areas are configured for areas 1 to 4 of the alarm system but by changing the parameter “Area mapping” it is also possible to cover the areas 5 to 8.

A scene can be assigned to each status. This scene number will be recalled each time the zone status is active (ON).

Leave the scene number to 0 to disable the scene control.

STATE	SCENE
Disarmed	0..64
Entry	0..64
Exit	0..64
Armed	0..64
Partial armed	0..64
Fire alarm	0..64
Siren ON (Audible alarm)	0..64
Panic alarm (Silent alarm)	0..64
Intrusion alarm	0..64



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## 4. COMMUNICATION OBJECTS

### 4.1 GENERAL

General communication objects of the device.

GO	NAME	DESCRIPTION
1	Module status	Sends 0 when the module is operating normally, sends an error code when applicable.
2	Firmware	Sends the firmware version of the device at startup
233	Call scene	The scene number configured for each area status are sent to KNX whenever the area status is activated

### 4.2 POWER SUPPLY


GO	NAME	DESCRIPTION
163	AC Failure	Active when the main power supply of the alarm system is down.
164	Battery Failure	Active when the battery is low

### 4.3 ZONE

Each ZONE has 1 Group Objects (GO) for the status to KNX.

GO	NAME	DESCRIPTION
67	Zone x Status	Zone status

This chapter details what GO are available for each ZONE. The same GO applies to all other ZONE (x = 1 to 96).


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#### 4.4 AREA

Each area has 12 Group Objects (GO), 3 for area control and 9 for the area status to KNX.


GO	NAME	DESCRIPTION
185	Area x - Arm	Arm the Area
186	Area x – Partial arm	Partial arm the Area
187	Area x – Disarm	Disarm the Area
188	Area x – State disarmed	Area x status
189	Area x – Entry delay	Area x status
190	Area x – Exit delay	Area x status
191	Area x – State armed	Area x status
192	Area x – State partial armed	Area x status
193	Area x – Fire alarm	Area x status
194	Area x – Siren ON	Area x status
195	Area x – Panic alarm	Area x status
196	Area x – Intrusion alarm	Area x status

This chapter details what GO are available for each AREA. The same GO applies to all other areas (x = 1 to 4).


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#### 4.5 GROUP OBJECT LIST

GO	Name	Function	Size	Flags	Type ID	Type Name	Range	Description
1	Module status	Status code	1 byte	C R - T -	20.011	DPT_ErrorClass_System		Device error code
2	Firmware	Text string	14 bytes	C R - T -	16.000	DPT_String_ASCII		Device firmware version
3	PG1	On/Off	1 bit	C - W - -	1.001	DPT_Switch	0..1	PG – On/Off (NOT USED)
4	PG1 Status	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	PG – On/Off status (NOT USED)
5	PG2	On/Off	1 bit	C - W - -	1.001	DPT_Switch	0..1	PG – On/Off (NOT USED)
6	PG2 Status	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	PG – On/Off status (NOT USED)
...	<i>Same for PG3 to PG31</i>							
64	PG32	On/Off	1 bit	C - W - -	1.001	DPT_Switch	0..1	PG – On/Off (NOT USED)
66	PG32 Status	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	PG – On/Off status (NOT USED)
67	Zone 1 Status	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Zone – On/Off status
68	Zone 2 Status	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Zone – On/Off status
...	<i>Same for Zone 3 to 95</i>							
162	Zone 96 Status	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Zone – On/Off status
163	AC Failure	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	On/Off status
164	Battery Failure	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	On/Off status
169	Virtual input 1	Open/Close	1 bit	C - W - -	1.001	DPT_Switch	0..1	Open/close input (NOT USED)
170	Virtual input 2	Open/Close	1 bit	C - W - -	1.001	DPT_Switch	0..1	Open/close input (NOT USED)
...	<i>Same for input 3 to 15</i>							

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GO	Name	Function	Size	Flags	Type ID	Type Name	Range	Description
184	Virtual input 16	Open/Close	1 bit	C - W - -	1.001	DPT_Switch	0..1	Open/close input (NOT USED)
185	Area 1 - Arm	On/Off	1 bit	C - W - -	1.017	DPT_Switch	0..1	Arm Area
186	Area 1 – Partial arm	On/Off	1 bit	C - W - -	1.017	DPT_Switch	0..1	Partial arm Area
187	Area 1 – Disarm	On	1 bit	C - W - -	1.017	DPT_Trigger	0..1	Disarm Area
188	Area 1 – state disarmed	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area state disarmed
189	Area 1 – entry delay	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area entry delay status
190	Area 1 – exit delay	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area exit delay status
191	Area 1 – state armed	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area state armed status
192	Area 1 – state partial armed	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area state partial armed status
193	Area 1 – Fire alarm	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area fire alarm
194	Area 1 – Siren ON	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area siren ON
195	Area 1 – Panic alarm	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area panic alarm
196	Area 1 – Intrusion alarm	On/Off	1 bit	C R - T -	1.001	DPT_Switch	0..1	Area intrusion alarm
...	<i>Same for AREA 2 to 4</i>							
233	Call scene	-	1 Byte	C - - T -	18.001	DPT_SceneControl	1..64	Scene control

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## 5. CONFIGURATION

### 5.1 NETWORK CONFIGURATION

By default, the IP address of the KNX gateway is set to **192.168.1.51**

Using a laptop connected to the gateway, open a web browser and navigate to the IP address of the gateway.



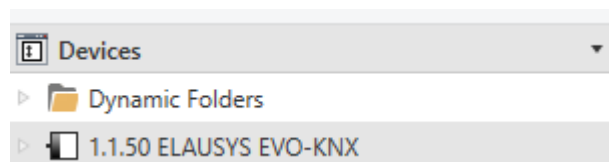
Set a fixed IP address of your choice for the KNX gateway and configure the settings as below:


- Device IP: IP Address of the alarm system

### 5.2 PHYSICAL DEVICE

ELAUSYS devices are configured using the ETS tool. You should first download and install the free version of ETS tool before you continue.

The NXG-KNX Interface must be assigned a physical address on the KNX network. Assign a free address to the module, in our example we chose 1.1.50.



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### 5.3 PARAMETERS

Once a KNX physical address is set, open the parameter tab to configure the interface. The parameters are grouped into sections: A general section and a section for each area configured.

1.1.50 ELAUSYS EVO-KNX > General

<div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px; text-align: center;">General</div> <div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Area 1</div> <div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Area 2</div> <div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Area 3</div> <div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 5px;">Area 4</div>	<div style="margin-bottom: 10px;">PG</div> <div style="margin-bottom: 10px;">Use PG Control :           <input checked="" type="radio"/> Not used   <input type="radio"/> Used</div> <div style="margin-bottom: 10px;">Use PG Status :           <input type="radio"/> Not used   <input checked="" type="radio"/> Used</div> <div style="margin-bottom: 10px;">Number of PG :           <input type="radio"/> 16   <input checked="" type="radio"/> 32</div> <div style="margin-bottom: 10px;">Zones</div> <div style="margin-bottom: 10px;">Use Zone Status :       <input type="radio"/> Not used   <input checked="" type="radio"/> Used</div> <div style="margin-bottom: 10px;">Number of zones :       <input type="text" value="96"/></div> <div style="margin-bottom: 10px;">Zones Offset :           <input checked="" type="radio"/> 0   <input type="radio"/> 96</div> <div style="margin-bottom: 10px;">Use Virtual Inputs :     <input type="radio"/> Not used   <input checked="" type="radio"/> Used</div> <div style="margin-bottom: 10px;">Areas</div> <div style="margin-bottom: 10px;">Number of Areas :       <input type="text" value="4"/></div> <div style="margin-bottom: 10px;">Send Area Status :       <input type="text" value="ON/OFF"/></div> <div style="margin-bottom: 10px;">General</div> <div style="margin-bottom: 10px;">User code :               <input type="text" value="123456"/></div> <div style="margin-bottom: 10px;">User code lenght :       <input type="text" value="6"/></div> <div style="margin-bottom: 10px;">Use Power Supply Status : <input type="radio"/> Not used   <input checked="" type="radio"/> Used</div> <div style="margin-bottom: 10px;">PG and Zone startup behavior : <input type="text" value="Switch OFF"/></div> <div style="margin-bottom: 10px;">Device options :         <input type="text"/></div>
---	---

In the general section, enter the valid user code for user “knx” from the alarm system.

Enable the required group objects and select the number of zone and areas to be used. For each Area selected, a tab is available in the left side menu to configure the scene control.

Open the first Area parameters by selecting the section “Area 1”.

By default Area 1 is mapped to area 1 of the alarm system, by changing this value to 5 for example, Area 1 of the KNX interface would be linked to area 5 in the alarm system.


For each status of the Area, set the scene number to be called. Leaving the scene number to 0 will disable it.

1.1.50 ELAUSYS EVO-KNX > Area 1

General	Area mapping :	1	▼
Area 1	Call scene when :		
Area 2	Disarm :	1	▼
Area 3	Entry :	2	▼
Area 4	Exit :	3	▼
	Arm :	4	▼
	Partial armed :	5	▼
	Fire alarm :	6	▼
	Siren ON :	7	▼
	Panic alarm :	8	▼
	Intrusion Alarm :	9	▼

Then repeat the same process for each Area in your project.

When GO and parameters are all configured, download the KNX Interface application to the device. The first download requires to press the programming button on the device to set the device in KNX programming mode then perform a full download.

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## 5.4 GROUP OBJECTS

A group address (GA) must be assigned to each group object (GO) needed by the application. Open the Group Objects tab of the device and assign a GA to the object scene, zones and areas as needed.


Example for Area 1:

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
185	Area 1 - Arm	On/Off	Arm	2/1/1	1 bit	C	-	W	-	-	switch	Low
186	Area 1 - Partial Arm	On/Off	Partial Arm	2/1/2	1 bit	C	-	W	-	-	switch	Low
187	Area 1 - Disarm	On	Disarm	2/1/3	1 bit	C	-	W	-	-	trigger	Low
188	Area 1 - Disarmed	On/Off	State disarmed	2/1/13	1 bit	C	R	-	T	-	switch	Low
189	Area 1 - Entry delay	On/Off	Entry	2/1/9	1 bit	C	R	-	T	-	switch	Low
190	Area 1 - Exit delay	On/Off	Exit	2/1/10	1 bit	C	R	-	T	-	switch	Low
191	Area 1 - Armed	On/Off	State armed	2/1/12	1 bit	C	R	-	T	-	switch	Low
192	Area 1 - Partial Armed	On/Off	State armed parti...	2/1/11	1 bit	C	R	-	T	-	switch	Low
193	Area 1 - Fire Alarm	On/Off	Fire	2/1/5	1 bit	C	R	-	T	-	switch	Low
194	Area 1 - Siren ON	On/Off	Audible alarm	2/1/14	1 bit	C	R	-	T	-	switch	Low
195	Area 1 - Panic Alarm	On/Off	Panic Alarm	2/1/0	1 bit	C	R	-	T	-	switch	Low
196	Area 1 - Intrusion Alarm	On/Off	Intrusion alarm	2/1/4	1 bit	C	R	-	T	-	switch	Low

Power supply status:

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
163	AC Failure	On/Off	Power supply	0/0/3	1 bit	C	R	-	T	-	switch	Low
164	Battery Failure	On/Off	Battery	0/0/2	1 bit	C	R	-	T	-	switch	Low




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Zone status:

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
67	Zone 1 Status	On/Off	Zone status	4/0/1	1 bit	C	R	-	T	-	switch	Low
68	Zone 2 Status	On/Off	Zone status	4/0/2	1 bit	C	R	-	T	-	switch	Low
69	Zone 3 Status	On/Off	Zone status	4/0/3	1 bit	C	R	-	T	-	switch	Low
70	Zone 4 Status	On/Off	Zone status	4/0/4	1 bit	C	R	-	T	-	switch	Low
71	Zone 5 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
72	Zone 6 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
73	Zone 7 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
74	Zone 8 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
75	Zone 9 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
76	Zone 10 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
77	Zone 11 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
78	Zone 12 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
79	Zone 13 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
80	Zone 14 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
81	Zone 15 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
82	Zone 16 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
83	Zone 17 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
84	Zone 18 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
85	Zone 19 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
86	Zone 20 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
87	Zone 21 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
88	Zone 22 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
89	Zone 23 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
90	Zone 24 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
91	Zone 25 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
92	Zone 26 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
93	Zone 27 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
94	Zone 28 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
95	Zone 29 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
96	Zone 30 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
97	Zone 31 Status	On/Off			1 bit	C	R	-	T	-	switch	Low
98	Zone 32 Status	On/Off			1 bit	C	R	-	T	-	switch	Low

When GO and parameters are all configured, download the KNX Interface application to the device. The first download requires to press the programming button on the device to set the device in KNX programming mode then perform a full download.

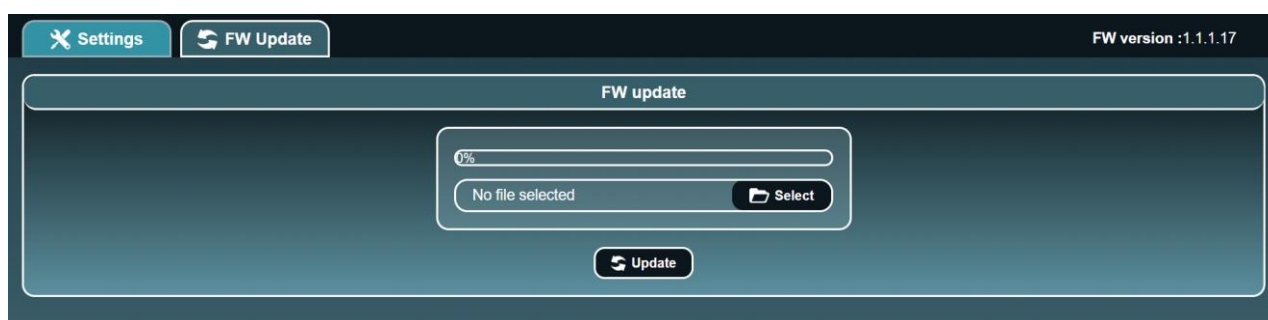
	<b>User Manual</b>	Doc.Ref :           NXG-KNX-UM
	<b>NXG-KNX – Interlogix KNX Interface</b>	Revision :           1.00
		Page :                18 of 18

## 6. FIRMWARE VERSION

This user manual and related ETS application is valid for firmware versions V1.00 and above. A “Firmware” group object is available on the device to read the firmware version as a string.

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	Module status	Status code	ModuleStatus	0/0/1	1 byte	C	R	-	T	-	system error class	Low
2	Firmware version	Text string	Firmware	0/0/4	14 bytes	C	R	-	T	-	Character String (AS...	Low

The firmware version can also be read from the gateway webpage using a web browser. It is displayed on the top right of the page.



In case a new firmware version would be available, the device can be updated from the FW Update page, the binary file should be selected before pressing the Update button.

## 7. DATASHEET

TECHNICAL DATA	VALUE
Auxiliary power supply terminal	Screw terminal 12-30VDC / GND
Power consumption KNX bus typ.	< 16 mA @ 29VDC
Operating temperature	+5°C to + 45°C
Enclosure Dimensions (Space Units)	2 SU
Mounting	DIN RAIL
KNX terminal	Pluggable micro terminal, Red/Black, 4 pole PUSH WIRE for solid conductor wire 0.6-0.8 mm <sup>2</sup>
KNX bus voltage	29 VDC