IntesisBox®

IBOX-KNX-ENO-A1 (868 MHz)
IBOX-KNX-ENO-A1C (315 MHz)

Bidirectional KNX to EnOcean gateway

IntesisBox® IBOX-KNX-ENO-A1 / A1C allow monitoring and control, fully bi-directionally, all the functioning parameters of EnOcean devices from KNX installations.

- Small dimensions, fully bidirectional.
- External power not required. Supplied through KNX bus.
- Supporting up to 253 KNX communication objects.
- Up to 32 simultaneous channels and up to 5 devices per channel.
- Fast and easy integration with IntesisBox EnOcean gateways for air conditioning.
- Logical functions already implemented for some devices (e.g., AND and OR gates for Window Contact).
- Easy way to add new EnOcean devices by using a XML file.
- Intuitive and easy setup by using an ETS plugin with no need of any external software.
- EnOcean devices quality signal reception shown in LCD.
- Internal LCD to manually add/remove EnOcean devices if needed.

URL http://www.intesis.com
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1. KNX Interface

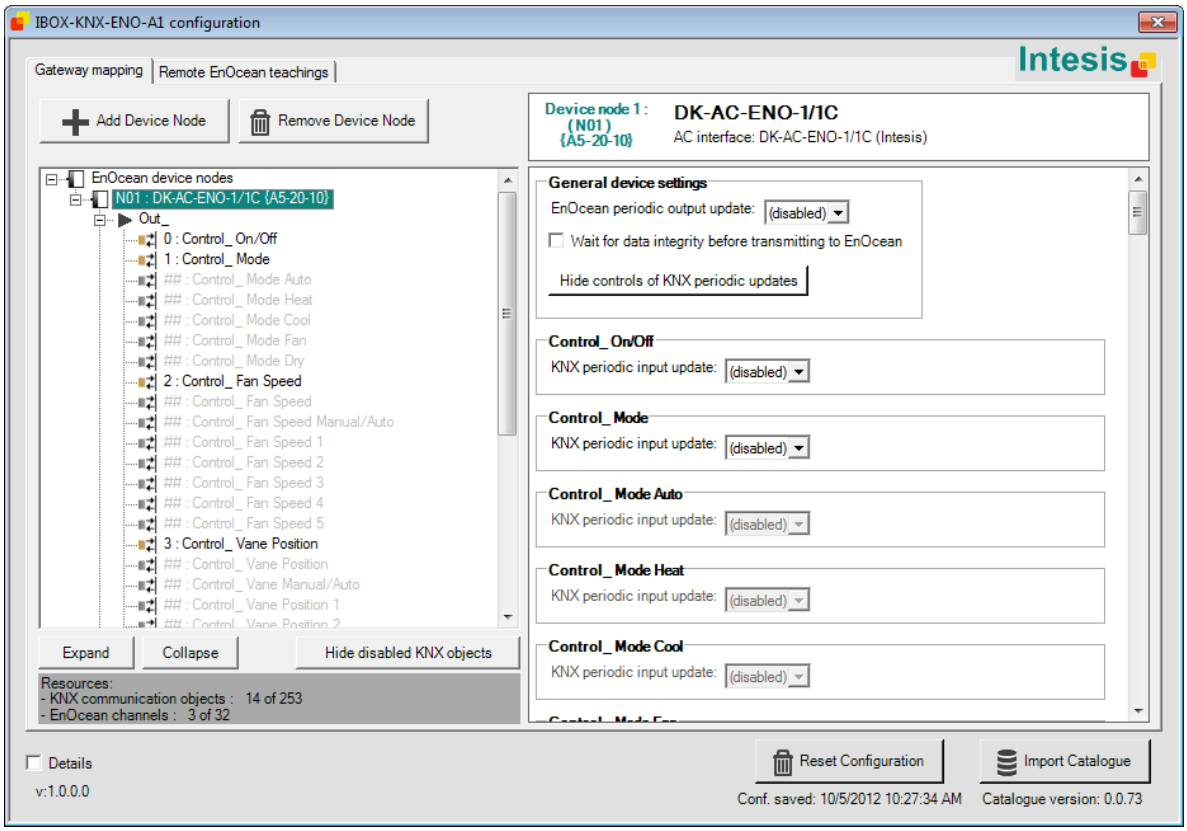

Figure 1.1 ETS plugin example

2. EnOcean Interface

- IBOX-KNX-ENO-A1: working at 868 MHz (Europe)
- IBOX-KNX-ENO-A1C: Working at 315 MHz (USA and Asia)

Coverage	Conditions
< 300 m	Open areas
< 30 m	Under ideal conditions: Broad room, no obstacles and good antenna position.
< 20 m	The room is filled with furniture and people And penetration through up to 5 dry walls or up to 2 brick walls or up to 2 aero concrete walls.
< 10 m	Identical to the previous case but the receiver is placed in a room corner or range along a narrow floor.
< 1 m	Metal-reinforced ceilings at upright penetration angle (in strong dependence of reinforcement density and antenna positions).

Table 2.1 Device coverage distance

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3. Connections

Connection to the KNX bus

The IBOX-KNX-ENO-A1 / A1C gateway has only to be connected to the KNX bus by using the standard KNX twisted pair cable.

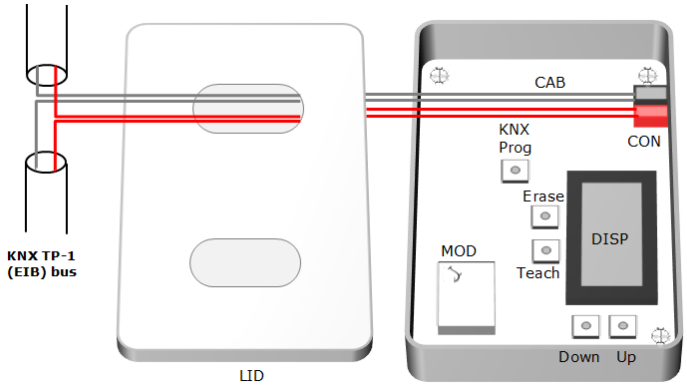

Figure 3.1 IBOX-KNX-ENO-A1 / A1C connection to KNX bus

4. Integration example

Figure 4.1 IBOX-KNX-ENO-A1 / A1C integration example

5. Technical Specifications

Enclosure	ABS (UL 94 HB). 2,5 mm thickness
Dimensions	70 x 100 x 28 mm
Weight	80g
Color	White
Power supply	29V DC, 7mA Supplied through KNX bus.
Mounting	Wall.
LED indicators (internal)	1 x KNX programming.
LCD Display (internal)	2x8 Characters STN Positive (Yellow-green) Reflective type Without backlight
Push buttons	1 x KNX programming. 2 x LCD display control 1 x Erase EnOcean devices 1 x Teach / Learn EnOcean devices
Operating Temperature	From 0ºC to 40ºC
Operating humidity	<93% HR, no condensation
Stock humidity	<93% HR, no condensation
RoHS conformity	Compliant with RoHS directive (2002/95/CE).

Certifications	IBOX-KNX-ENO-A1:
	• CE conformity to EMC directive (2004/108/EC) and Low-voltage directive (2006/95/EC)
	  ○ EN 301489-1 V1.8.1
	  ○ EN 60950-1
	  ○ EN 50491-3
	  ○ EN 50090-2-2
	IBOX-KNX-ENO-A1C:
	• FCC (*ID: SZV-STM300C)*
	• IC (ID*: 5713A-STM300C)*

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6. Dimensions (mm)