

IntesisBox[®] **USB-ENO-ASCII / C** v.1.0.1

For Supervision and Control of any IntesisBox[®] Enocean Gateways for Air Conditioners from USB enabled Controllers or PC software using simple text messages.

IntesisBox[®] USB-ENO-ASCII / C gateways allow supervision and bidirectional control of any IntesisBox[®] Enocean AC gateway from PC systems such as SCADA's or others using simple text messages.

1. Main Features:

- Bidirectional: Supervision and Control.
- Up to 10 AC IntesisBox[®] gateways.
- Control of the AC indoor units using simple text messages. •
- Spontaneous messages avoid continuous polling •
- Fast and easy commissioning. •
- USB Powered. No external power supply needed. •
- Plug and Play (virtual COM port). •
- Suitable look for home applications.
- Small dimensions.



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2. Typical application

In Figure 2.1 it is shown a typical integration example using the USB-ENO-ASCII / C to control and supervise up to 10 IntesisBox[®] EnOcean AC Interfaces.



Figure 2.1 Integration example

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3. EnOcean Interface

EnOcean Interface		
References	USB-ENO-ASCII: Transceiver @ 868 MHz USB-ENO-ASCII-C: Transceiver @ 315 MHz	
Devices supported	Up to 10 IntesisBox [®] AC gateways	

Table 3.1 General features

Coverage distance	Conditions
< 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 to 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 3.2 Device coverage distance

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4. ASCII serial (USB) Interface

- The USB bus is used to power up the gateway so no external power supply is • needed.
- Plug and Play. When the gateway is connected to the computer's USB port, a virtual • COM port is generated and the gateway can be used right away without any configuration.
- The IntesisBox[®] can be configured to notify any change in the AC indoor unit ٠ variables to the control system, sending spontaneous messages. This working mode avoids the control system to perform continuous polling.
- Serial port communication settings:

Baud rate	9600 bps
Stop bit	1
Data bits	8
Flow control	none
Parity	No parity

 Table 4.1 Serial port communication settings

Communication using simple ASCII text messages listed in the user manual. The AC • variables can be easily read/written with these simple messages.



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5. Compatible IntesisBox[®] AC gateways

In Table 5.1 the compatible IntesisBox[®] AC gateways are listed.

USB-ENO-ASCII	USB-ENO-ASCII-C
ME-AC-ENO-1	ME-AC-ENO-1-C
DK-AC-ENO-1	DK-AC-ENO-1-C
DK-RC-ENO-1	DK-RC-ENO-1-C

Table 5.1 Device compatibility

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6. Technical specifications

ABS (UL 94 HB). 2,5 mm thickness		
71 x 71 x 27 mm		
60g		
White		
USB powered		
1 x USB		
Desktop		
Wall		
1 x USB connection error		
1 x NOT (Notification) LED		
1 x CONF (configuration) LED		
Through ASCII commands		
From -25°C to 85°C		
<93% HR, no condensation		
<93% HR, no condensation		
Compliant with RoHS directive (2002/95/CE).		
USB-ENO-ASCII:		
• CE		
USB-ENO-ASCII-C:		
• FCC (<i>ID: SZV-STM300C</i>)		
• IC (ID: 5713A-STM300C)		

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