

IntesisBox[®]



for EnOcean



enocean[®] alliance

No Wires. No Batteries. No Limits.

General catalogue **2013**

ENGLISH

your partner for **systems integration**

Intesis



General catalogue 2013

KNX · MODBUS · BACNET · LONWORKS · ENOCEAN · ASCII · OPC SERVER

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The logo for ENOCCEAN features the word "ENOCCEAN" in a bold, white, sans-serif font, oriented vertically. The text is set against a dark, rounded rectangular background. Behind the text, there is a faint, abstract graphic of a city skyline with various building heights and colors in shades of blue and white, suggesting a modern, urban environment.

ENOCCEAN

IntesisBox

products for EnOcean wireless systems



The EnOcean Alliance is a consortium of companies working to further develop and promote self-powered wireless monitoring and control systems for sustainable buildings by formalising the interoperable wireless standard. The EnOcean Alliance has the largest installed base of field-proven wireless building automation networks in the world. A group of key companies across Europe and North America are currently forming the EnOcean Alliance as a non-profit, mutual benefit corporation which has the formal purpose of:

- establishing energy harvesting wireless technology as the wireless standard for sustainable buildings
- helping to bring about the existence of a broad range of interoperable wireless monitoring and controlling products for use in and around residential, commercial and industrial buildings and to promote global trade in such products
- by initially developing the specifications for the interoperability of the sensor profiles for the wireless products operating in unlicensed frequency bands and subsequently to apply for ratification as an international standard at the appropriate standardization committee .

For further information, please visit www.enocean-alliance.org

EnOcean IntesisBox® AC gateways

Specially designed, in collaboration with several AC manufacturers like Mitsubishi Electric, Daikin and Panasonic to allow supervision and bidirectional control of all the parameters and functionality of Air conditioners from EnOcean installations.

- **Easy installation** to the indoor unit via dedicated cable
- **Great integration flexibility.** To be linked to all kind of sensors, actuators or gateways allowing a full control and supervision from several devices in parallel. The implementation of the newly approved Generic HVAC interface EEP's (along many others) give them even a higher integration to B.M.S. gateways.
- **Configurable advanced room control functionalities.** IntesisBox® EnOcean gateways include specific configurable behaviors when linked to devices such as window contact, key card or presence sensors, allowing an advance control of the AC units and leading to savings in Energy. It can work as an EnOcean repeater too.
- **Virtual temperature functionality.** Specially useful when it is imperative to use an external ambient temperature reference, either from an EnOcean temperature sensor or a thermostat, or when the heating and the air conditioner want to be controlled from the same EnOcean thermostat.

IntesisBox EnOcean gateways for USB enabled devices

This product range includes also other gateways models allowing supervision and bidirectional control of any EnOcean device from PC systems such as SCADA's, control systems based in ASCII protocols, or monitoring B.M.S and USB enabled systems

- **Easy installation.** Plug and Play: IntesisBox® gateways only need to be connected to the USB port of the control system, typically a PC, and they will generate a virtual COM port being ready to be used.
- **Great integration flexibility** Intesisbox gateways can be used with all kind of EnOcean devices such as sensors, actuators or gateways allowing a full control and supervision of these devices.
- **Remote configuration of other Intesisbox® gateways.** Depending on model, it is possible to set up some functionalities of other IntesisBox EnOcean gateways

ME-AC-ENO-1 / ME-AC-ENO-1C

IntesisBox® ME-AC-ENO-1 / 1C gateways have been specially designed, in collaboration with Mitsubishi Electric, to allow monitoring and bidirectional control of all the parameters and functionality of Mitsubishi Electric air conditioners from EnOcean installations. Compatible with all the models of the Domestic and Mr. Slim Series manufactured by Mitsubishi Electric.



Specifications

- Bidirectional: Monitoring and Control
- Multiple EnOcean EEP's supported
- Configurable advanced room control functionalities
- Repeater functionality available
- Direct connection to the AC indoor unit
- No external power supply required
- Small size (WxHxD): 71 x 71 x 27 mm

Models available

- ME-AC-ENO-1 (EnOcean freq: 868 MHz. Europe)
- ME-AC-ENO-1C (EnOcean freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_ME-AC-ENO-1_datasheet_eng.pdf

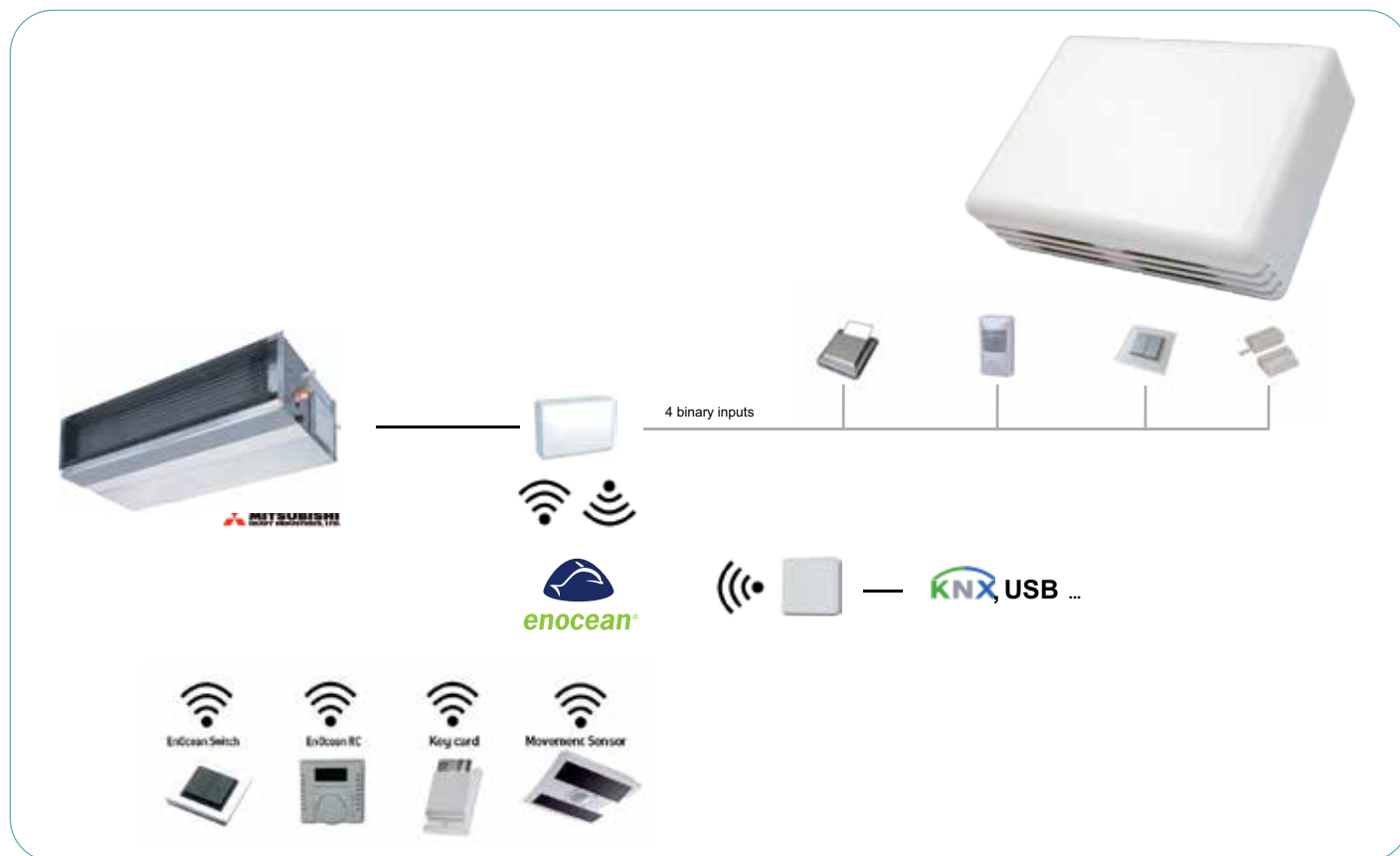
Compatibility list: http://www.intesis.com/pdf/IntesisBox_ME-AC-xxx-1_AC_Compatibility.pdf

Main features

- Easy installation. Direct connection to the AC indoor unit (CN105 or CN92 connector). Cable supplied.
- Great integration flexibility for all kind of EnOcean enabled sensors, actuators or gateways
- Configurable advanced room control functionalities using IS-ENO-MANAGER software. It can work as a repeater.
- Virtual temperature functionality. Useful when an external ambient temperature reference is required.
- Simultaneous control from EnOcean devices and the Air Conditioner IR handset.

MH-RC-ENO-1i / MH-RC-ENO -1iC

IntesisBox® MH-RC-ENO-1i allows monitoring and bidirectional control of all the operational parameters of Mitsubishi Heavy Industries air conditioners from EnOcean installations. Compatible with FD, KX6 and KXR6 Series manufactured by Mitsubishi Heavy Industries. 4 free-use binary inputs.



Specifications

- Bidirectional: Monitoring and Control
- Multiple EnOcean EEP's supported
- Configurable advanced room control functionalities
- Direct connection to the AC indoor unit.
- 4 binary inputs.
- No external power supply required
- Small size (WxHxD): 70 x 100 x 28 mm

Models available

- MH-RC-ENO-1i: working at 868 MHz (Europe)
- MH-RC-ENO-1iC: working at 315 MHz (USA and Asia)

** For other world locations contact your supplier

Main features

- Easy installation. Direct connection to the AC unit by X/Y bus (2 wire). Up to 16 AC indoor units can be connected to IntesisBox®, controlling them as one (not individually).
- Great integration flexibility for all kind of EnOcean enabled sensors, actuators or gateways. Configurable advanced room control functionalities using the IS-ENO-MANAGER software.
- 4 binary inputs working as standard EnOcean inputs or directly controlling the AC unit
- Virtual temperature functionality. Useful when an external ambient temperature reference is required.
- Simultaneous control from EnOcean devices and the Air Conditioner remote controller.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_MH-RC-ENO-1i_datasheet_eng.pdf

DK-AC-ENO-1 / DK-AC-ENO-1C

IntesisBox® DK-AC-ENO-1 / 1C gateways have been specially designed, in collaboration with Daikin, to allow monitoring and bidirectional control of all the parameters and functionality of Mitsubishi Electric air conditioners from EnOcean installations. Compatible with all the models of the Domestic Series manufactured by DAIKIN.



Specifications

- Bidirectional: Monitoring and Control
- Multiple EnOcean EEP's supported
- Configurable advanced room control functionalities
- Repeater functionality available
- Direct connection to the AC indoor unit
- No external power supply required
- Small size (WxHxD): 71 x 71 x 27 mm

Models available

- DK-AC-ENO-1 (EnOcean Freq: 868 MHz. Europe)
- DK-AC-ENO-1C (EnOcean Freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_DK-AC-ENO-1_datasheet_eng.pdf

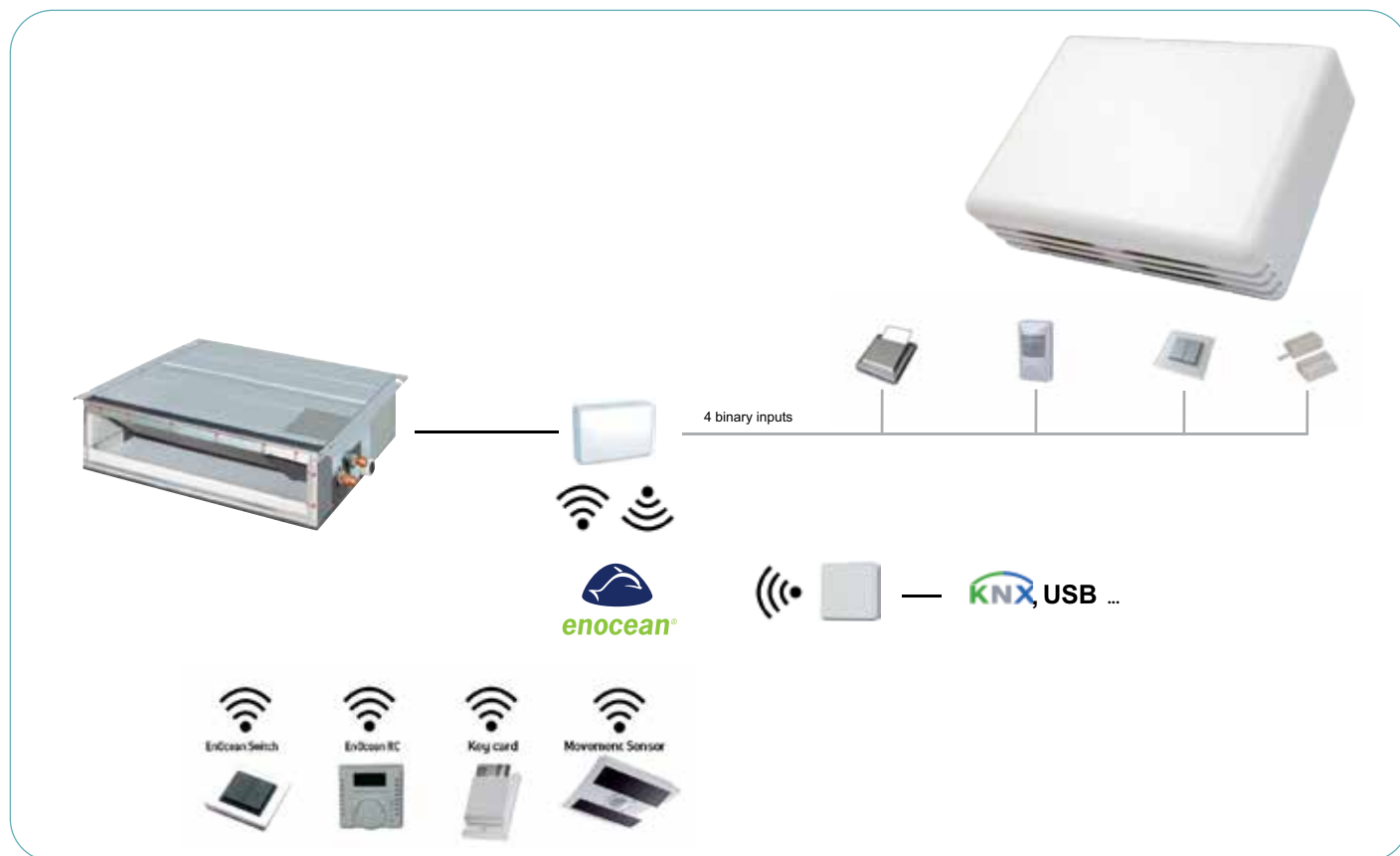
Compatibility list: http://www.intesis.com/pdf/IntesisBox_DK-AC-xxx-1_AC_Compatibility.pdf

Main features

- Easy installation. Direct connection to the AC indoor unit [S21 connector]. Cable supplied.
- Great integration flexibility for all kind of EnOcean enabled sensors, actuators or gateways
- Configurable advanced room control functionalities using the IS-ENO-MANAGER software. Can work as repeater.
- Virtual temperature functionality. Useful when an external ambient temperature reference is required.
- Simultaneous control from EnOcean devices and the Air Conditioner IR handset.

DK-RC-ENO-1i / DK-RC-ENO-1iC

IntesisBox® DK-RC-ENO-1i allows Monitoring and control, fully bi-directionally, of all the operational parameters of DAIKIN Sky & VRV Air Conditioners from EnOcean installations. 4 free-use binary inputs.



Specifications

- Bidirectional: Monitoring and Control
- Configurable advanced room control functionalities
- Repeater functionality available
- 4 potential free binary inputs
- No external power supply required
- Small size (WxHxD): 70 x 100 x 28 mm

Models available

- DK-RC-ENO-1i (EnOcean Freq: 868 MHz. Europe)
- DK-RC-ENO-1iC (EnOcean Freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_DK-RC-ENO-1i_datasheet_eng.pdf

Compatibility list: http://www.intesis.com/pdf/IntesisBox_DK-RC-xxx-1_AC_Compatibility.pdf

Main features

- Easy installation as Slave or Master in parallel with Daikin remote controllers.
- Great integration flexibility for all kind of EnOcean enabled sensors, actuators or gateways. 4 binary inputs working as standard EnOcean inputs or directly controlling the AC unit
- Configurable advanced room control functionalities using the IS-ENO-MANAGER software. Can work as repeater.
- Virtual temperature functionality. Useful when an external ambient temperature reference is required.

PA-AC-ENO-1i / PA-AC-ENO-1iC

IntesisBox® PA-AC-ENO-1i allows monitoring and control, fully bi-directionally, of all the operational parameters of PANASONIC air conditioners from EnOcean installations. Compatible with Etherea MKE and NKE Series manufactured by PANASONIC. 4 free-use binary inputs.



Specifications

- Bidirectional: Monitoring and Control
- Configurable advanced room control functionalities
- Repeater functionality available
- 4 potential free binary inputs
- No external power supply required
- Small size (WxHxD): 70 x 100 x 28 mm

Models available

- PA-AC-ENO-1i (EnOcean freq: 868 MHz. Europe)
- PA-AC-ENO-1iC (EnOcean freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_PA-AC-ENO-1i_datasheet_eng.pdf

Compatibility list: http://www.intesis.com/pdf/IntesisBox_PA-AC-xxx-1_AC_Compatibility.pdf

Main features

- Easy installation. Direct connection to the AC indoor unit (Etherea Series CN-CNT connector). Cable supplied.
- Great integration flexibility for all kind of EnOcean sensors, actuators or gateways.
- 4 binary inputs working as standard EnOcean inputs or directly controlling the AC unit
- Configurable advanced room control functionalities using the IS-ENO-MANAGER software. Can work as repeater.
- Virtual temperature functionality. Useful when an external ambient temperature reference is required.

USB-ENO / USB-ENO-C

IntesisBox® USB-ENO / C gateways allow monitoring and bidirectional control of any EnOcean device in your USB enabled controller or PC software.

Integration example:

Standard EnOcean devices controlled or supervised from an EnOcean PC software (SCADA, ...)



EnOcean Devices

Switches

- Wireless Switches
- Key card readers
- Window contacts
- Industrial switches

Sensors

- Temperature Sensors
- Humidity Sensors
- Movement Sensors
- Luminance Sensors

Automatization

- Air Conditioners
- Actuators
- Room controllers and many others



Specifications

- Bidirectional: Monitoring and Control
- Unlimited quantity of transmitters supported
- Up to 128 actuators
- ESP2 and ESP3 Compatible
- Repeater functionality available
- USB Powered. No external power supply needed

Models available

- USB-ENO (EnOcean Freq: 868 MHz. Europe)
- USB-ENO-C (EnOcean Freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier

Main features

- Easy installation. Plug & Play. Direct connection to the USB port of the control system. A virtual COM port is generated.
- Great integration flexibility for all kind of EnOcean sensors, actuators or gateways. Can work as level 1 or 2 repeater enabling EnOcean network expansion.
- Remote management of other IntesisBox gateways. Using IS-ENO-MANAGER-A1 software.

Info

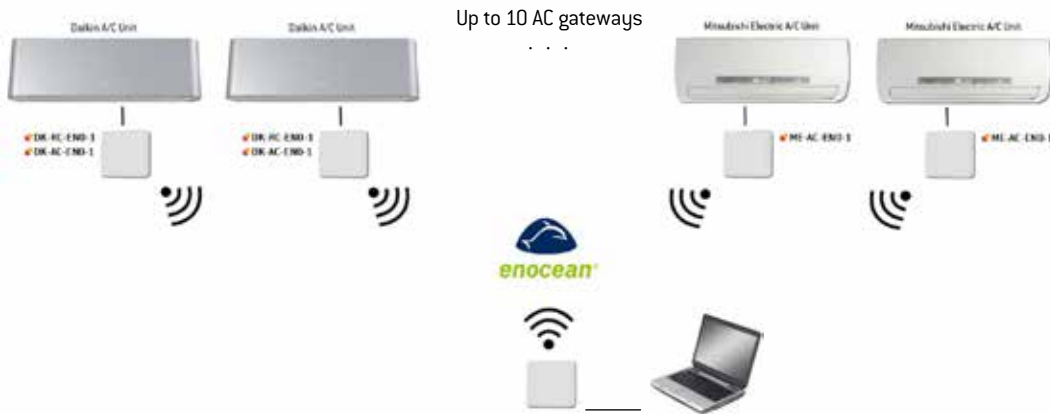
Datasheet: http://www.intesis.com/pdf/IntesisBox_USB-ENO_datasheet_eng.pdf

USB-ENO-ASCII / USB-ENO-ASCII-C

IntesisBox® USB-ENO-ASCII / C gateways allow monitoring and bidirectional control of any IntesisBox® EnOcean AC gateway for air conditioners in your USB enabled controller or PC software using simple text (ASCII) messages.



Integration example:
EnOcean AC gateways controlled and supervised from a PC software (SCADA, ...)



Specifications

- Bidirectional: Monitoring and Control
- Up to 10 AC gateways
- Fast and Easy commissioning
- USB Powered. No external power supply needed
- Small size (WxHxD): 71 x 71 x 27 mm

Models available

- USB-ENO-ASCII (EnOcean Freq: 868 MHz. Europe)
- USB-ENO-ASCII-C (EnOcean Freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier

Main features

- Easy installation. Plug & Play. Directo connection to the USB port of the control system. A virtual COM port is generated.
- Great integration flexibility. Full control and Monitoring of AC units trough ASCII commands. Ideal solution for existing systems. Uses RS-232 communication. Spontaneous messages to be sent when AC variables are changed, avoiding to perform continuous polling.
- Remote configuration of the AC gateway working parameters

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_USB-ENO-ASCII_datasheet_eng.pdf

USB-ENO-ASCII-U / USB-ENO-ASCII-U-C

IntesisBox® USB-ENO-ASCII-U / C gateways allow monitoring and bidirectional control of any Intesisbox® EnOcean device in your USB enabled controller or PC software using simple text (ASCII) messages.



Integration example:
Standard EnOcean devices controlled or supervised from PC software (SCADA, ...)

EnOcean Devices

Switches

- Wireless Switches
- Key card readers
- Window contacts
- Industrial switches

Sensors

- Temperature Sensors
- Humidity Sensors
- Movement Sensors
- Luminance Sensors

Automatization

- Air Conditioners
- Actuators
- Room controllers and many others



Specifications

- Bidirectional: Monitoring and Control
- Up to 128 transmission channels supported
- Up to 99 receive channels supported
- Repeater functionality available
- USB Powered. No external power supply needed
- Small size (WxHxD): 71 x 71 x 27 mm

Models available

- USB-ENO-ASCII-U (EnOcean Freq: 868 MHz. Europe)
- USB-ENO-ASCII-U-C (EnOcean Freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier

Main features

- Easy installation. Plug & Play. Directo connection to the USB port of the control system. A virtual COM port is generated.
- Great integration flexibility. To be used with EnOcean sensors, actuators or gateways. Spontaneous messages to be sent when AC variables are changed, avoiding to perform continuous polling. Device configuration with ASCII commands. Can work as level 1 or 2 repeater enabling EnOcean network expansion.
- Advanced integration. Full and transparent integration of EnOcean installations (control of air conditioners, lights, blinds...) in ASCII based BMS installations.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_USB-ENO-ASCII-U_datasheet_eng.pdf

IS-TK04

The IntesisBox® IS-TK04 range of Room Temperature Sensor and controllers allow the control of the EnOcean Air conditioner gateways as well as other climate devices.



Main features

- Transmission only
- Powered by solar cell
- EEPs: 07-02-05, 07-10-01 & 07-10-02, 07-10-03, 07-10-05 & 07-10-06
- Small size (WxHxD): 84.5 x 84.5 x 25 mm

Models available

IS-TK04 Room temperature sensor

IS-TK04P Room temperature sensor with set point adjustment

IS-TK04PT Room temperature sensor with set point adjustment, presence key

IS-TK04P MS Room temperature sensor with set point adjustment, Slide switch 0/1

IS-TK04PST Room temperature sensor with set point adjustment, presence key, fan speed switch

IS-TK04PS MS Room temperature sensor with set point adjustment, Slide switch 0/1, fan speed switch

For devices working at 315Mhz add «-C» to the reference

Info

http://www.intesis.com/pdf/IntesisBox_IS-TK04_datasheet.pdf

IS-TK65

The IntesisBox® IS-TK04 is an outdoor temperature sensor.



Main features

- Transmission only
- Powered by solar cell
- Measured temperature: -20...60°C

Models available

IS-TK65 Outdoor temperature sensor at 868 MHz

IS-TK65-C Outdoor temperature sensor at 315 MHz

Info

http://www.intesis.com/pdf/IntesisBox_IS-TK65_datasheet.pdf

IBOX-KNX-ENO-A1 / IBOX-KNX-ENO-A1C

IntesisBox® IBOX-KNX-ENO-A1 / A1C gateways have been specially designed to allow Monitoring and bidirectional control of all the parameters and functionality of EnOcean devices from KNX installations.

EnOcean Devices

Switches

- Wireless Switches
- Key card readers
- Window contacts
- Industrial switches

Sensors

- Temperature Sensors
- Humidity Sensors
- Movement Sensors
- Luminance Sensors

Automation

- Air Conditioners
- Actuators
- Room controllers and many others



Integration example:

Conventional EnOcean devices, Mitsubishi Electric and DAIKIN Air Conditioner using the EnOcean gateway.



Specifications

- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus
- No external power supply required
- Small size (WxHxD): 70 x 100 x 28 mm.

Models available

- IBOX-KNX-ENO-A1 (EnOcean freq. 868 Mhz Europe)
- IBOX-KNX-ENO-A1C (EnOcean freq. 315 MHz. USA and Asia)

** For other world locations contact your supplier.

Main features

- Easy installation. Direct connection to the KNX bus and installed within the EnOcean signal range.
- Great integration flexibility. The IntesisBox device sends/ receives telegrams from/to other EnOcean devices such as switches, card readers, thermostats, room controllers, actuators, etc.
- Advanced integration for IntesisBox AC EnOcean interfaces like Daikin and Mitsubishi Electric, Panasonic, Mitsubishi Heavy, ...

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_ENO_datasheet_eng.pdf



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Intesis Software is member of the KNX Association , KNX Spain and EnOcean Alliance

