

IntesisBox®

PORTFOLIO 2017







INTESISBOX GATEWAYS







EASY-TO-USE & RELIABLE SOLUTIONS
FOR SYSTEM INTEGRATION AND CONTROL OF SMART BUILDINGS

IntesisBox®
















CONFIGURATION TOOL

-  ETS
-  IntesisBox Maps
-  LinkBox
-  Web Server



EXTERNAL POWER

-  External Power not required
-  12 Vdc
-  5 Vdc
-  230 Vac
-  9 to 24 Vdc or 24 Vac
-  18 to 36 Vdc

CAPACITY

- | | | | | |
|---|---|---|---|---|
|  1 Indoor unit |  Up to 32 Devices |  Direct connection up to 120 M-Bus devices |  Up to 64 Units |  Up to 2000 Control points |
|  Multiple indoor units |  Up to 64 Devices |  Up to 500 devices (External level converter required) |  Up to 100 Units |  Up to 3000 Control points |
|  Up to 32 Channels |  Up to 100 Devices |  Up to 32 Units |  Up to 128 Units |  Up to 4000 Control points |






SIZE

-  Can be installed inside or close to the I.U
-  To be installed inside an electrical cabin

INPUTS

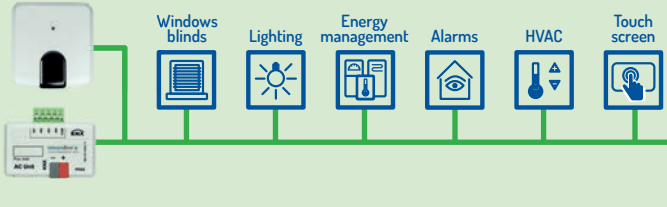
-  Binary inputs

COMMUNICATION

-  Indoor unit
-  Infrared
-  Outdoor unit
-  Manufacturer gateway
-  Remote controller

KNX

- AIR CONDITIONER**
UNIVERSAL
- More than 40 A.C brands
- SPECIFIC**
- Mitsubishi Electric
- Daikin
- Panasonic
- LG
- Midea
- Mitsubishi Heavy Industries
- Hitachi
- Samsung
- Fujitsu
- Toshiba
- Haier

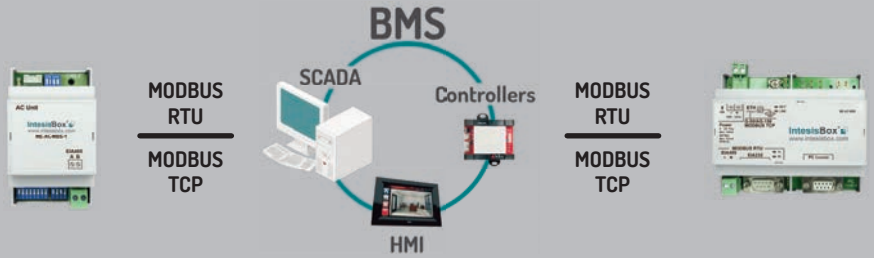


OTHER PROTOCOLS

- BACnet
- Modbus
- LonWorks
- EnOcean

MODBUS

- AIR CONDITIONER**
UNIVERSAL
- Mitsubishi Electric
- Daikin
- Panasonic
- LG
- Samsung
- Mitsubishi Heavy Industries
- Fujitsu
- Hisense
- Hitachi
- Midea

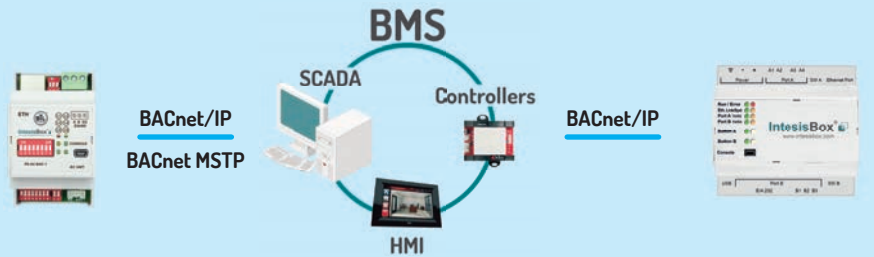


OTHER PROTOCOLS

- KNX
- BACnet
- LonWorks
- MBUS
- DALI
- Fidelio
- Fire panels
- Intrusion panels

BACNET

- AIR CONDITIONER**
UNIVERSAL
- Mitsubishi Electric
- Daikin
- Panasonic
- Toshiba
- Mitsubishi Heavy Industries

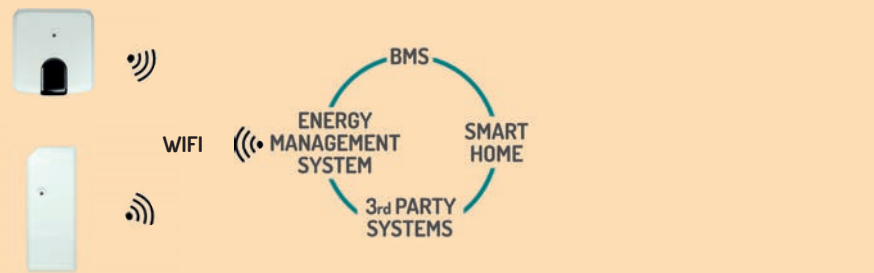


OTHER PROTOCOLS

- KNX
- Modbus
- LonWorks
- MBUS
- DALI
- Fidelio
- Notifier ID3000

WIFI

- AIR CONDITIONER**
UNIVERSAL
- More than 40 A.C brands
- SPECIFIC**
- Mitsubishi Electric
- Daikin
- Panasonic
- Mitsubishi Heavy Industries
- LG
- Fujitsu
- Toshiba



ENOCEAN

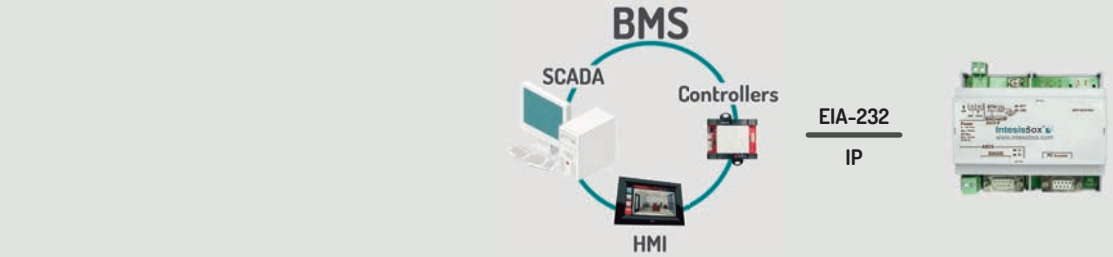
- AIR CONDITIONER**
UNIVERSAL
- Mitsubishi Electric
- Daikin
- Panasonic
- Mitsubishi Heavy Industries



OTHER PROTOCOLS

- KNX
- ASCII

ASCII

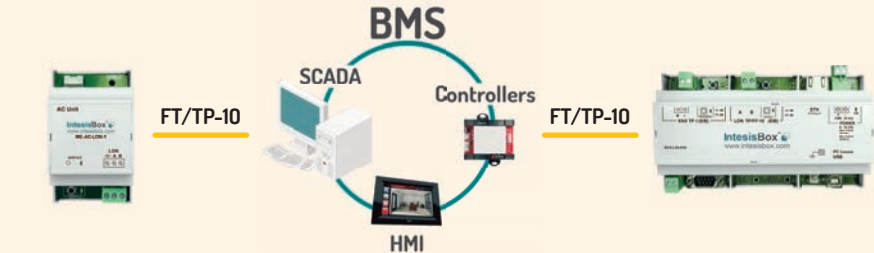


OTHER PROTOCOLS

- KNX
- BACnet
- LonWorks

LOZ

- AIR CONDITIONER**
- Mitsubishi Electric



OTHER PROTOCOLS

- KNX

IntesisBox[®] FOR:


IntesisBox KNX gateways for Air Conditioners

For the last decade, IntesisBox gateways have been the reference for Air Conditioning systems integration into KNX projects. IntesisBox gateways offer specific solutions for the most popular AC brands and also a universal solution based on Infrared communication (IS-IR-KNX-1i).


Easy to integrate through ETS. IntesisBox Gateways offer all the necessary DPTs to work with any KNX thermostat or KNX touch panel. In addition, IntesisBox gateways also offer extra functionalities, such as: KNX scenes, binary inputs, additional heating/cooling, window contact, presence function and many more, which will help KNX integrators to create the best KNX projects for their customers.




UNIVERSAL




IS-IR-KNX-1i
FOR: RAC,PAC,VRF




ME-AC-KNX-1-V2
FOR: RAC,PAC,VRF




ME-AC-KNX-1i
FOR: RAC,PAC,VRF



ME-AC-KNX-15/100
FOR: RAC,PAC,VRF




MH-RC-KNX-1i
FOR: RAC,PAC,VRF




MH-AC-KNX-48/128
FOR: VRF


DAIKIN




DK-AC-KNX-1
FOR: RAC




DK-AC-KNX-1i
FOR: RAC




DK-RC-KNX-1
FOR: PAC,VRF



DK-RC-KNX-1i
FOR: PAC,VRF




LG-RC-KNX-1i
FOR: PAC,VRF




LG-AC-KNX-4/8/16/64
FOR: RAC,PAC,VRF


TOSHIBA




TO-RC-KNX-1i
FOR: PAC,VRF




TO-AC-KNX-16/64
FOR: VRF




SM-ACN-KNX-4/8/16/64
FOR: PAC,VRF



MD-AC-KNX-1B/16/64
FOR: PAC,VRF




FJ-RC-KNX-1i
FOR: RAC,PAC,VRF




AK-AC-KNX-4/8/16/64
FOR: RAC,PAC,VRF


Panasonic




PA-AC-KNX-1i
FOR: RAC




PA-RC-KNX-1i
FOR: PAC,VRF



PA-RC2-KNX-1i
FOR: PAC,VRF



PA-AC-KNX-64/128
FOR: PAC,VRF




PA-AW-KNX-1
FOR: A2W

IntesisBox[®] FOR:




HITACHI



HI-AW-KNX-1
FOR: A2W

Haier




HA-AC-KNX-8/16/64
FOR: VRF

IntesisBox KNX gateways for multi-protocol integration


IntesisBox multi-protocol gateways have been designed to help integrators add non-KNX devices into their projects in a fast and easy way. Thanks to its intuitive and flexible configuration tool, IntesisBox KNX gateway series can integrate Modbus, LonWorks, BACnet or EnOcean devices into a KNX project in almost no time.

BACnet




IBOX-KNX-BAC
FOR: BACnet/IP


Modbus



IBOX-KNX-MBRTU
FOR: Modbus RTU




IBOX-KNX-MBTCP
FOR: Modbus TCP




IBOX-KNX-MBM
FOR: Modbus RTU & TCP

LonWorks



IBOX-KNX-LON
FOR: LON

enocean



IBOX-KNX-ENO-A1/C
FOR: EnOcean



IntesisBox Modbus slave gateways for Air Conditioners

IntesisBox Modbus gateways for Air Conditioners offer one of the largest range of gateways in the market for AC system integrations. IntesisBox Modbus register map, common to all gateways, helps improving the integration time no matter the AC brand to be used in each project. Installers can create general templates to be used on the different SCADA, BMS or EMS solutions just once and use them in all projects they have and for many different AC brands such as Daikin, Fujitsu, Mitsubishi Electric, Panasonic and Toshiba among others.

ME-AC-MBS-1/
ME-AC-MBS-1-2110
FOR: RAC,PAC,VRF

ME-AC-MBS-50/100
FOR: RAC,PAC,VRF

MH-RC-MBS-1
FOR: RAC,PAC,VRF

MH-AC-MBS-48/128
FOR: PAC,VRF

DK-AC-MBS-1
FOR: RAC

DK-RC-MBS-1
FOR: PAC,VRF

PA-AC-MBS-1
FOR: RAC

PA-RC2-MBS-1
FOR: PAC,VRF

PA-AW-MBS-1
FOR: A2W

PA-AC-MBS-64/128
FOR: PAC,VRF

FJ-RC-MBS-1
FOR: PAC,RAC,VRF

MD-RC-MBS-1
FOR: PAC,VRF

LG-RC-MBS-1
FOR: PAC,VRF

LG-AW-MBS-1
FOR: A2W

LG-AC-MBS-4/8/32/64
FOR: RAC,PAC,VRF

SM-RC-MBS-1
FOR: PAC,VRF

SM-ACN-MBS-4/8/32/64
FOR: PAC,VRF

HI-RC-MBS-1
FOR: PAC,VRF

TO-RC-MBS-1
FOR: PAC,VRF

HS-RC-MBS-1
FOR: PAC,VRF

IntesisBox[®] FOR:

IntesisBox Modbus slave gateways for multi-protocol integration

IntesisBox Modbus gateway series offer solutions to include not only standard protocols such as BACnet, KNX or LonWorks, but also specific solutions for DALI ballasts, Fidelio hotel management interfaces, M-BUS meters, solar systems, fire panels and security panels. Integration can be easily done thanks to its intuitive and flexible configuration software.

IBOX-MBS-BAC
FOR: BACnet/IP

IBOX-MBS-KNX
FOR: KNX

IBOX-MBS-TCP2RTU
FOR: Modbus RTU

IBOX-MBS-LON
FOR: LON

IBOX-MBS-MBUS
FOR: M-BUS

IBOX-MBS-DALI
FOR: DALI

IBOX-MBS-FID-A/B
FOR: FIDELIO

SOLAR PANELS		
IBOX-MBS-ATERSA	ATERSA	Up to 99 devices
FIRE PANELS		
IBOX-MBS-CERBERUS	SIEMENS	Cerberus CSI1 and CSI0 with ID0 1745 protocol
IBOX-MBS-FC330A	SIEMENS	Synova® FC300A
IBOX-MBS-ALGOREX	SIEMENS	Algorex
IBOX-MBS-ALGORI	ADEMCO	Algorinet BC216
IBOX-MBS-KILSEN	KILSEN	KSA 7XX
IBOX-MBS-NID3000	NOTIFIER	ID3000, ID3002
SECURITY PANELS		
IBOX-MBS-GALAXY	HONEYWELL	Galaxy

MODBUS

IntesisBox BACnet server gateways for Air Conditioners

IntesisBox offers a large range of BACnet gateways to integrate single direct expansion AC units for the most popular AC brands. IntesisBox BAC-1 gateways are IP or MSTP and offer all the necessary BACnet objects to integrate the AC units in our project, including not only ON/OFF, Mode, Set Point, Room Temp. or Fan Speed, but Error signal, Error codes, LockRemote and OnTimeCunter too.



ME-AC-BAC-1
FOR: RAC,PAC,VRF





MH-RC-BAC-1
FOR: RAC,PAC,VRF





TO-RC-BAC-1
FOR: PAC,VRF





PA-AC-BAC-1
FOR: RAC





PA-RC2-BAC-1
FOR: PAC,VRF





PA-AC-BAC-64/128
FOR: PAC,VRF





DK-AC-BAC-1
FOR: RAC





DK-RC-BAC-1
FOR: PAC,VRF





HI-AC-BAC-8/64
FOR: VRF





IntesisBox BAC-1 series ensure full interoperability by the BTL Mark.

NOTE: PA-AC-BAC-64/128 and HI-AC-BAC-8/64 are not currently BTL listed.

IntesisBox BACnet server gateways for multi-protocol integration

IntesisBox BACnet gateways offer an easy and fast integration of non-BACnet devices and systems into BACnet projects. A part from the standard protocols, such as KNX, LonWorks or Modbus, IntesisBox BACnet gateways also offer support for M-Bus meters, DALI ballasts, Fidelio hotel management interfaces, Sunways solar systems and Notifier fire panels. Thanks to this wide range of solutions and its flexible and intuitive configuration tool, IntesisBox BACnet gateways have been one of the most appreciated solutions in the market by many integrators.



IBOX-BAC-KNX
FOR: KNX





IBOX-BAC-MBRTU
FOR: Modbus RTU





IBOX-BAC-MBTCP
FOR: Modbus TCP





IBOX-BAC-MBM
FOR: Modbus RTU & TCP





IBOX-BAC-DALI
FOR: DALI





IBOX-BAC-LON
FOR: LON





IBOX-BAC-MBUS
FOR: M-BUS





IBOX-BAC-MBUS
FOR: M-BUS



With built-in level converter up to 120 M-Bus devices



IBOX-BAC-FID-A/B
FOR: FIDELIO





IBOX-BAC-NID3000
FOR: ID3000





IBOX-BAC-SUNWAYS
FOR: SUWAYS



IntesisBox[®] FOR:



IntesisBox EnOcean gateways

IntesisBox EnOcean gateways offer specific devices to integrate the most important AC brands with EnOcean self-powered wireless sensors (Thermostats, window contact, presence sensors, etc) allowing integrators to design easy and powerful energy saving projects for offices, hotels, shops, etc. On the other hand, IntesisBox also offers ASCII to EnOcean gateways to allow the integration of EnOcean devices into any system.

MITSUBISHI ELECTRIC	DAIKIN		Panasonic	MITSUBISHI HEAVY INDUSTRIES, LTD.
ME-AC-ENO-1-1C FOR: RAC,PAC,VRF	DK-AC-ENO-1-1C FOR: RAC	DK-RC-ENO-1i-1iC FOR: PAC,VRF	PA-AC-ENO-1i-1iC FOR: RAC	MH-RC-ENO-1i-1iC FOR: PAC,VRF
USB-ENO/C FOR: USB	USB-ENO-ASCII/C FOR: USB	USB-ENO-ASCII-U/C FOR: USB		

IntesisBox ASCII gateways for multi-protocol integration

IntesisBox ASCII gateway series offer solutions to integrate BACnet, KNX and LonWorks devices, through RS232 or TCP/IP connections, into any ASCII command based management system.

BACnet	KNX	LonWorks
IBOX-ASCII-BAC FOR: BACnet/IP	IBOX-ASCII-KNX FOR: KNX	IBOX-ASCII-LON FOR: LON
ME-AC-LON-1 FOR: RAC,PAC,VRF	IBOX-LON-KNX FOR: KNX	



IS-OPC-NID3K
FOR: Notifier ID3000

IntesisBox[®] FOR:

IntesisBox WiFi gateways for Air Conditioners

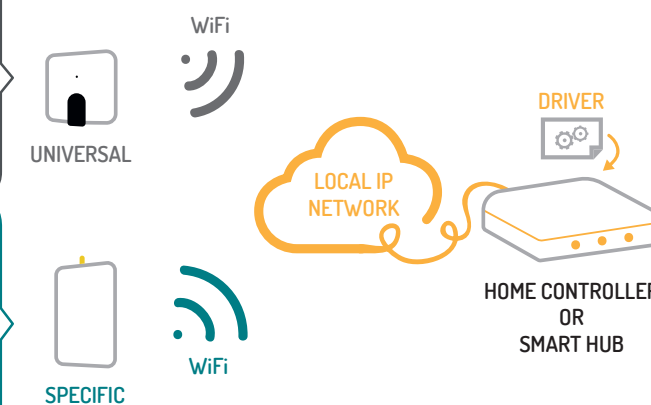
The new range of IntesisBox WiFi gateways allows an easy Air Conditioner integration in any kind of control and monitoring system, using a simple IP Protocol. The new WiFi gateways family has been specifically designed for Home Automation Manufacturers or Integrators interested in offering a control solution for the Air Conditioner System, just creating a simple Driver in their Home Controllers or Smart Hubs.

WIFI GATEWAYS TYPES

Universal WiFi device offers compatibility with thousands of models of Air Conditioners, it only requires an Indoor Unit that has an IR receiver working with a standard Wireless Remote Controller.

Specific WiFi devices use the proprietary communication protocol of each AC Manufacturer allowing real bidirectional communication with the AC system, offering also advanced parameters like error signals, error codes, power consumption, etc.

DIAGRAM EXAMPLE



INTEGRATE WITH...



UNIVERSAL	MITSUBISHI ELECTRIC	MITSUBISHI HEAVY INDUSTRIES, LTD.	FUJITSU	DAIKIN	
IS-IR-WMP-1 FOR: RAC,PAC,VRF	ME-AC-WMP-1 FOR: RAC,PAC,VRF	MH-RC-WMP-1 FOR: PAC,VRF	FJ-RC-WMP-1 FOR: PAC,VRF	DK-AC-WMP-1 FOR: RAC	DK-RC-WMP-1 FOR: RAC,PAC,VRF
Panasonic	LG	TOSHIBA			
PA-AC-WMP-1 FOR: RAC	PA-RC2-WMP-1 FOR: PAC,VRF	LG-RC-WMP-1 FOR: PAC,VRF	TO-RC-WMP-1 FOR: PAC,VRF		

IntesisBox®

Made by:

Intesis 
Member of the HMS group

C/ Milà i Fontanals, 1 bis 1º, 08700 Igualada - Barcelona - Spain
☎ +34 938 047 134 📠 +34 938 047 135 ✉ sales@intesis.com



www.intesisbox.com



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