



Gateway solutions  
for building and home integration

Protocol Translators  
Air Conditioning Interfaces  
Cloud Solutions



# Intesis - connecting buildings and homes

The market-leading portfolio of Intesis gateways for building and home automation covers all relevant standards and technologies, including the market's most comprehensive portfolio for HVAC integration with solutions for all major AC-brands.

Highly reliable, robust, easy-to-configure and install, the Intesis Protocol Translators and AC interfaces are widely used for system integration. Users benefit from efficient commissioning and uninterrupted operation in the system.

## Intesis by HMS Networks

In 2016, Intesis was acquired by HMS Networks, market leader in solutions for industrial communication and the Industrial Internet of Things, IIoT. The Intesis brand is HMS central brand for Building Automation products and solutions. The other main markets for HMS are Manufacturing, Power, Energy, Transportation, Infrastructure and Logistics.



## About HMS Networks

With millions of installed products worldwide, HMS Networks is the leading supplier of solutions for industrial communication and the IIoT. HMS is "Connecting Devices" for a more productive and sustainable world. Our solutions enable our customers to expand their businesses globally.

- Employees: > 600
- Locations: in 16 countries
- Distributors: > 50 countries
- Brands: Anybus, Ewon, Intesis, Ixxat
- Customers: Device manufacturers, machine builders, system integrators, end users
- Year founded: 1988



## High quality standards for Intesis products

Intesis products are subject to different tests and certifications to ensure the highest quality standards. Also, additional tests are implemented for specific markets.

### 100% tested

Every single product manufactured by Intesis is tested to ensure the highest quality standards.

### UL listed

Intesis products contain UL marked components and the production line is subject to periodic UL audits. It is with pride that we put the UL mark on all main Intesis products.

### Global coverage

In addition to rigorous internal quality tests, Intesis products are also certified by independent testing labs to fulfill national legal requirements on different markets.

### Protocol certifications

All implementations of standard protocols in Intesis products are performed rigorously according to each protocol specification. Full interoperability is then ensured thanks to testing and certification by external accredited laboratories.





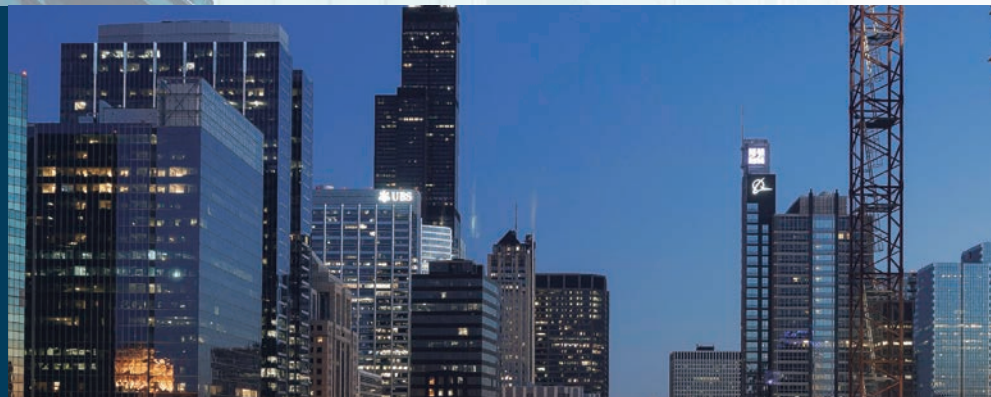
# Solutions for every project

Modern buildings include equipment from many different vendors that need to communicate in highly advanced networks.

System integrators, BMS vendors, HVAC manufacturers and professionals in the automation market all over the world have one thing in common - they trust Intesis products in their building automation integration projects.

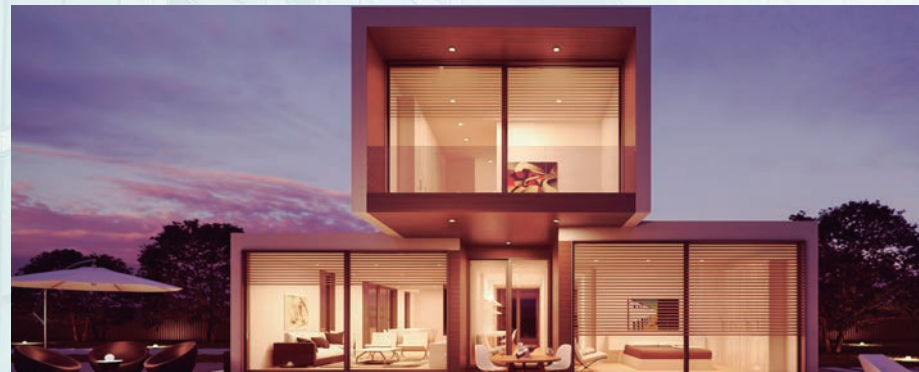
## Protocol Translators

BACnet, KNX, Modbus, DALI, M-Bus, ASCII, PROFINET, LonWorks and more. All of them are supported by the Intesis protocol translators. With cutting edge technology built on a reliable platform, integration solutions are offered for all your needs.



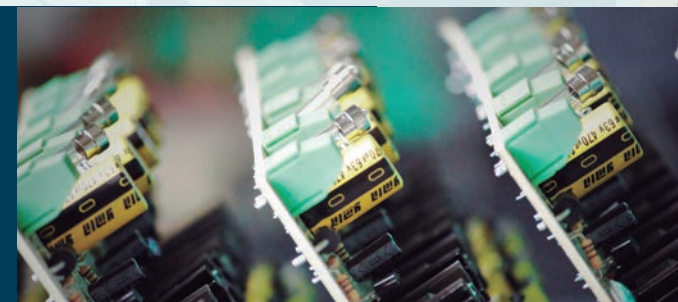
## Air Conditioning Interfaces

Developed with and for all major Air Conditioner manufacturers, Intesis AC interfaces enable high quality integration of climate systems into BACnet, KNX, Modbus, and 2,4 GHz wireless installations.



## Cloud Solutions

Intesis deep experience in Building Automation protocols and communication solutions for HVAC integration brought to the cloud for straight-forward remote device management.



No matter what building automation protocol or AC brand...

...Intesis has the communication solution!



## Protocol Translators

When choosing an Intesis protocol translator, you can be sure that you get a ready to use product which solves the complexity of integrating between building automation protocols.



## Protocol Translators with the latest technology

Intesis protocol translators include the most recent and modern technology, assembled in user-friendly products to facilitate installation, configuration and deployment.



### LED indicator matrix

Multiple LED indicators confirm that all protocols are communicating properly or indicate if there is a communication issue.



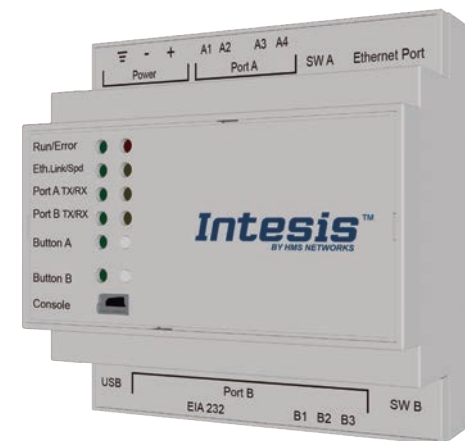
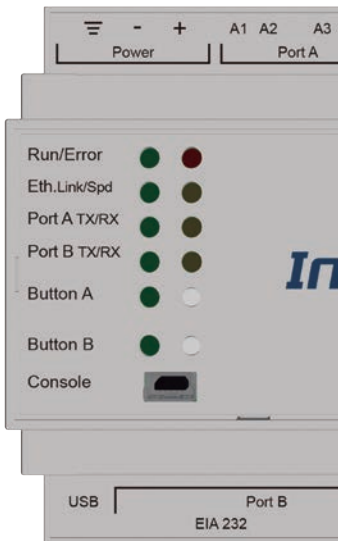
### IP/USB console

Selectable configuration via USB or IP ports.



### USB host

Configuration can be performed with the USB host port, from downloading projects or generating log files to updating the firmware.



### Multiple ports

With multiple ports for the different physical layers (cable/network types), all common connectivity requirements are met.



### Slim DIN-rail mounting

Consuming just 5 DIN-Rail modules, it is easy to fit Intesis protocol translators into cabinets.



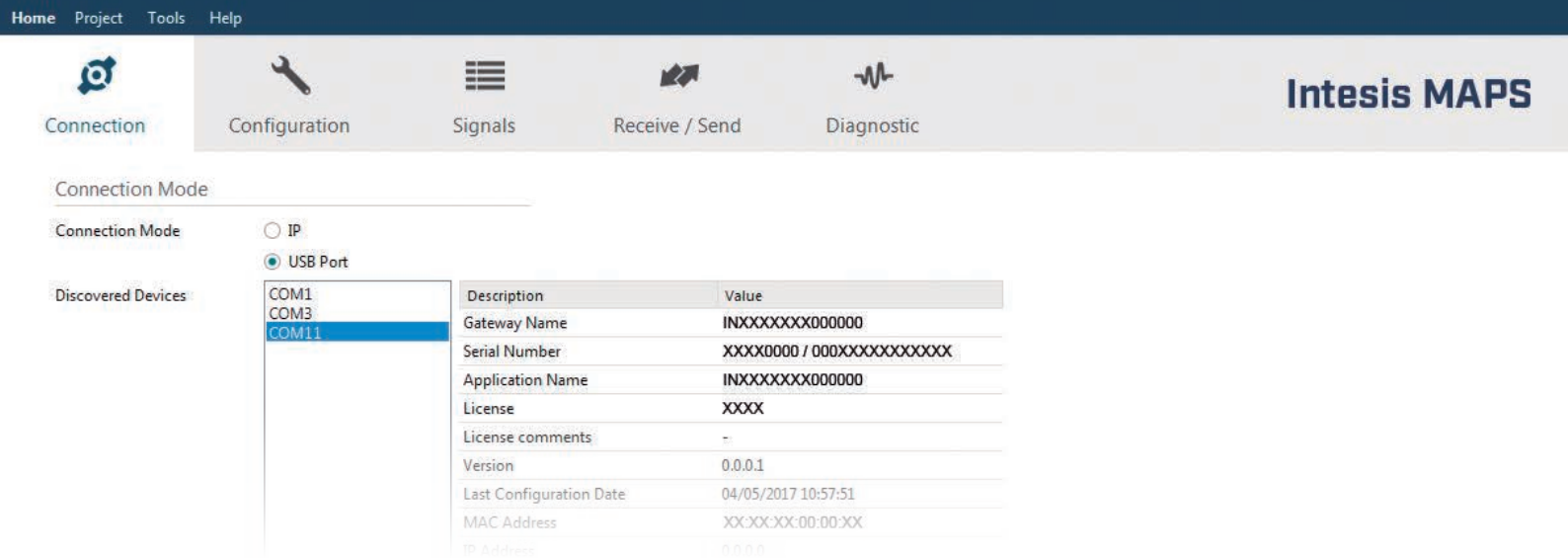
### Low powered solution

The protocol translators are designed for low power consumption for energy efficient operation on site.

Global connectivity enabled!



# Intesis MAPS enables fast navigation to a working configuration

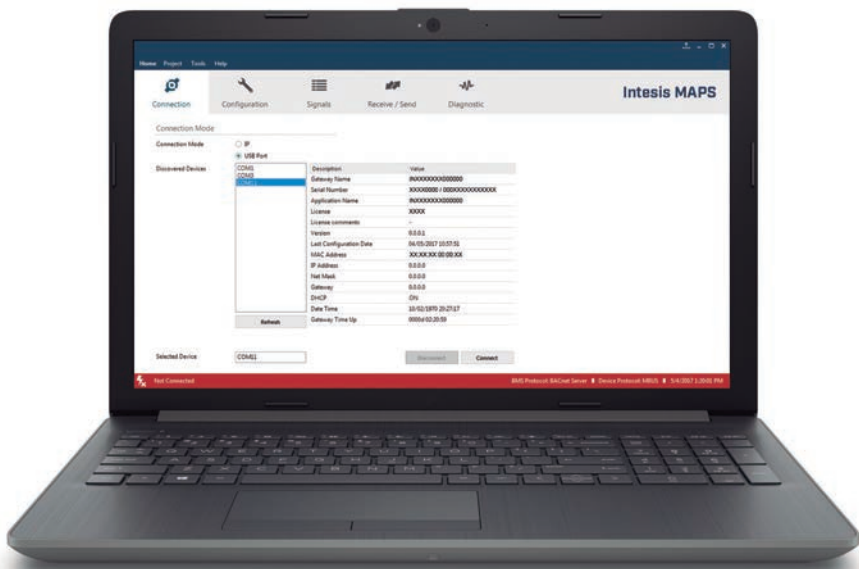


## Intesis MAPS

Powerful configuration of all Intesis protocol translators for a fast and straight-forward commissioning.

Intesis MAPS supports easy configuration of all possible protocol combinations available in the Intesis protocol translator portfolio, offering a simple and consistent way to program all your devices, regardless of the protocols used. Upon launching MAPS, the user selects the right template for the protocol translator and the configuration procedure can start.

Intesis MAPS provides device templates which import data automatically. Conversions such as scaling and offset are supported to allow the desired data transformation. MAPS also enables advanced diagnostics and troubleshooting by the user.



## Multi Addressing Point Solution



### Project templates

For every gateway there is a template providing a step by step setup guide for both protocols in the gateway.



### Product templates

Product templates are provided for automatic import of all device data, removing the need for manual work.



### Device scan

By using the scanning functionality, users can find devices in the field and import all their data automatically.



### Data conversion

Data can be transformed into the desired format, e.g. adjusting offset, scaling or converting from degrees Celsius into Fahrenheit.



### Diagnostics

Problems and errors can be detected and solved with Intesis MAPS diagnostics.



### Secure and safe configuration

MAPS configuration projects are protected by passwords to prevent unauthorized manipulation of projects and installations.



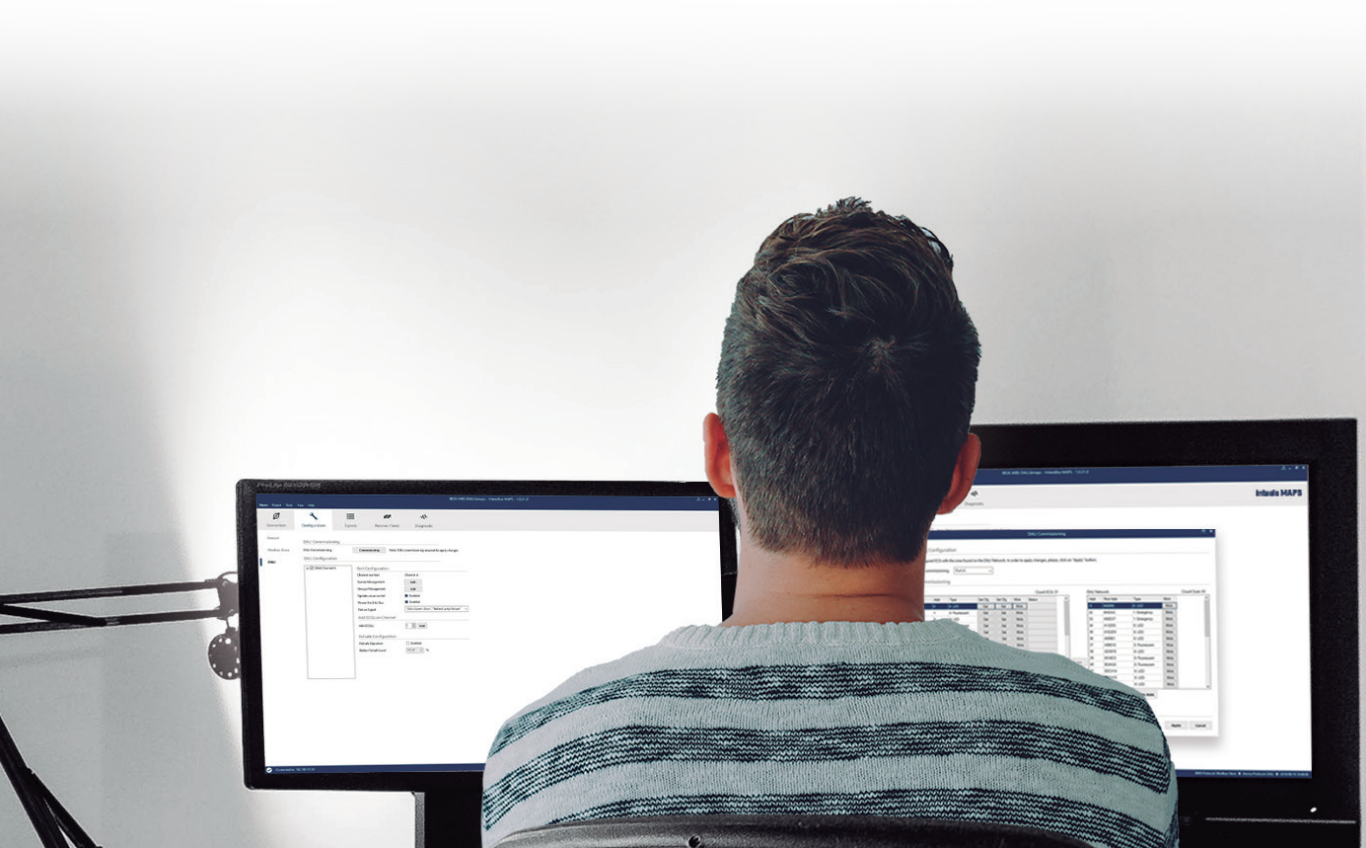
### Recovery

Users can save the gateway configuration project to file for e.g. recovery purposes or in case of gateway replacement.



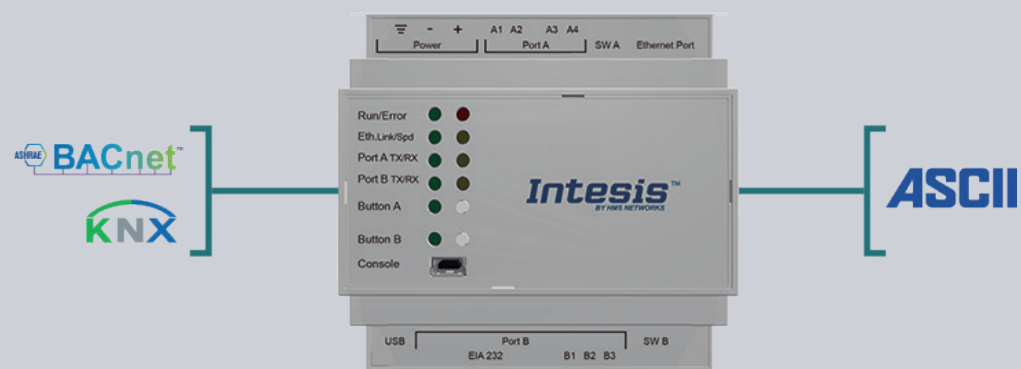
### Update information

The tool informs whenever there is a new software version available for the gateway or MAPS itself.





ASCII protocol translators

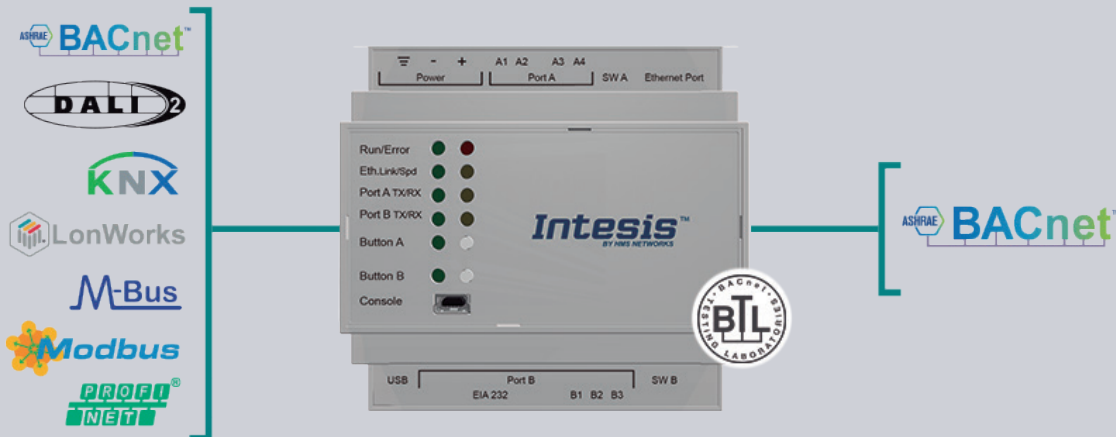


General features for ASCII

Supervision and control of BACnet or KNX devices can be done from an ASCII based control system using simple ASCII messages over serial (EIA232, EIA485) or TCP/IP interfaces.

- Both ASCII Serial and IP supported
- Custom string signals
- Custom string commands
- Easy integration to any BMS




BACnet protocol translators






General features for BACnet

An Intesis protocol translator for BACnet acts as a BACnet/IP Server or BACnet MSTP slave, allowing BACnet controllers to perform subscription requests (COV) and reads/writes to its internal points.

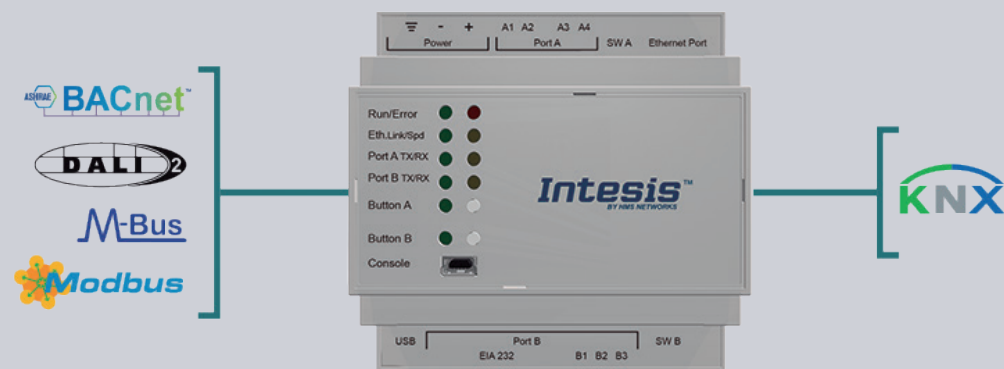
- BTL certified
- BACnet IP and MSTP
- BBMD and foreign Device
- Notification Classes

	ORDER CODE	POINT VERSION
 <i>BACnet to ASCII</i>	INASCBAC6000000	600 P.V.
	INASCBAC3K00000	3000 P.V.
		
 <i>KNX to ASCII</i>	INASCKNX6000000	600 P.V.
	INASCKNX3K00000	3000 P.V.

	ORDER CODE	POINT VERSION
 <i>KNX to BACnet</i>	INBACKNX1000000	100 P.V.
	INBACKNX2500000	250 P.V.
	INBACKNX6000000	600 P.V.
	INBACKNX1K20000	1200 P.V.
	INBACKNX3K00000	3000 P.V.
		
<i>LonWorks to BACnet</i>	INBACLON1000000	100 P.V.
	INBACLON2500000	250 P.V.
	INBACLON6000000	600 P.V.
	INBACLON1K20000	1200 P.V.
	INBACLON3K00000	3000 P.V.
		
<i>Modbus to BACnet</i>	INBACMBM1000000	100 P.V.
	INBACMBM2500000	250 P.V.
	INBACMBM6000000	600 P.V.
	INBACMBM1K20000	1200 P.V.
	INBACMBM3K00000	3000 P.V.
		
<i>DALI to BACnet</i>	INBACDAL0640200	64 D.V.
	INBACDAL1280200	128 D.V.
		
<i>M-Bus to BACnet</i>	INBACMEB0100000	10 D.V.
	INBACMEB0200000	20 D.V.
	INBACMEB0600000	60 D.V.
	INBACMEB1200000	120 D.V.
		
<i>BACnet MSTP to BACnet IP Router</i>	INBACRTR0320000	32 D.V.
		
<i>PROFINET – BACnet</i>	INBACPRT1K20000	1200 P.V.



KNX protocol translators

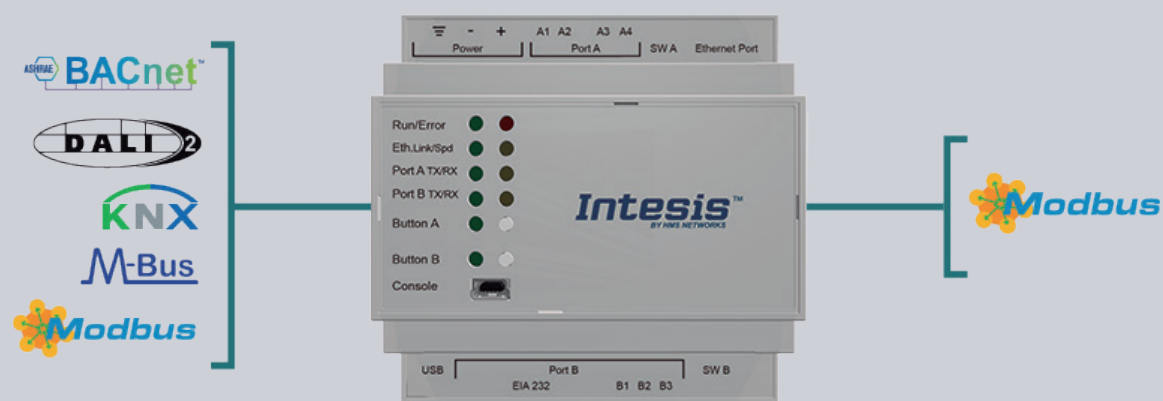


General features for KNX

A protocol translator with KNX connects directly to the KNX TP-1 bus carrying the same configuration and operational characteristics as any other KNX device.

- Standard KNX Datapoint Types
- Extended group addresses
- Sending and listening addresses
- Ri flag: Read on initialization flag





Modbus protocol translators








General features for Modbus

On Modbus, Intesis protocol translators act either as Modbus TCP Servers (Ethernet connection) and/or Modbus RTU slaves (serial EIA232,EIA485).

- Modbus TCP and RTU simultaneously
- Coils, holding registers and bitfields supported
- Multiple data formats
- Big-endian or Little-endian

	ORDER CODE	POINT	VERSION
 <i>BACnet to KNX</i>	INKNXBAC1000000	100 P.V.	
	INKNXBAC2500000	250 P.V.	
	INKNXBAC6000000	600 P.V.	
	INKNXBAC1K20000	1200 P.V.	
	INKNXBAC3K00000	3000 P.V.	
 <i>Modbus TCP/RTU to KNX</i>	INKNXMBM1000000	100 P.V.	
	INKNXMBM2500000	250 P.V.	
	INKNXMBM6000000	600 P.V.	
	INKNXMBM1K20000	1200 P.V.	
	INKNXMBM3K00000	3000 P.V.	
<i>Modbus RTU to KNX</i>	INKNXMBM1000100	100 P.V.	NEW
 <i>DALI to KNX</i>	INKNXDAL0640200	64 D.V.	NEW
 <i>M-Bus to KNX</i>	INKNXMEB0100000	10 D.V.	
	INKNXMEB0200000	20 D.V.	
	INKNXMEB0600000	60 D.V.	
	INKNXMEB1200000	120 D.V.	

	ORDER CODE	POINT	VERSION
 <i>BACnet to Modbus</i>	INMBSBAC1000000	100 P.V.	
	INMBSBAC2500000	250 P.V.	
	INMBSBAC6000000	600 P.V.	
	INMBSBAC1K20000	1200 P.V.	
	INMBSBAC3K00000	3000 P.V.	
 <i>KNX to Modbus</i>	INMBSKNX1000000	100 P.V.	
	INMBSKNX2500000	250 P.V.	
	INMBSKNX6000000	600 P.V.	
	INMBSKNX1K20000	1200 P.V.	
	INMBSKNX3K00000	3000 P.V.	
 <i>DALI to Modbus</i>	INMBSDAL0640200	64 D.V.	NEW
	INMBSDAL1280200	128 D.V.	NEW
 <i>M-Bus to Modbus</i>	INMBSMEB0100000	10 D.V.	
	INMBSMEB0200000	20 D.V.	
	INMBSMEB0600000	60 D.V.	
	INMBSMEB1200000	120 D.V.	
 <i>Modbus RTU to Modbus TCP router</i>	INMBSRTR0320000	32 D.V.	



## Air Conditioning Interfaces

The Intesis Air Conditioning interfaces form a portfolio of highly reliable interfaces for Air Conditioning integration, developed in collaboration with all major AC manufacturers. Take a look at the world's most comprehensive portfolio of AC interfaces for integration into KNX, Modbus, BACnet and Wi-Fi.

**Hisense**

**DAIKIN**

**Midea**

**FUJITSU**

**HITACHI**

**MITSUBISHI  
HEAVY INDUSTRIES, LTD.**

**SAMSUNG**

**MITSUBISHI  
ELECTRIC**

**Haier**

**Panasonic**

**LG**

**TOSHIBA**

## Intesis - the right choice for HVAC integration

In 2006, Intesis launched the first certified product able to directly integrate expansion Air Conditioner units into KNX. Today, after many years of experience gained and more than half a million AC units integrated all over the world, a very broad range of Intesis AC Interfaces is offered for integration of Air Conditioners from major brands into all commonly used building automation protocols.

### Energy efficient

HVAC systems account for a major part of the energy costs in a building. With the Intesis AC interfaces these can be controlled for optimal energy usage, enabling significant savings.

### Reliable

All developments are based strictly on AC manufacturers' specifications, with subsequent validation and approval by the AC manufacturers to ensure the right compatibility with their AC units.

### Easy to use

Thanks to the smart scanning functionality, connected AC units can be detected automatically.

### Trusted

AC interfaces from Intesis are trusted by System Integrators all over the world, covering all major protocols needed within Building Automation.

## Intesis AC interfaces - key features



### One to one

All the info from one indoor unit directly to one AC interface.



### Multi-unit

Control multiple indoor units from a single AC interface.



### Brand specific products

Specific solutions for all major Air Conditioning brands.



### Direct connection

Save costs by using AC interfaces that connect directly to the AC bus without any intermediate interface devices.



### Universal IR solution

Supports any AC brand on the market that uses Infrared (IR) remotes.



### AC units scan

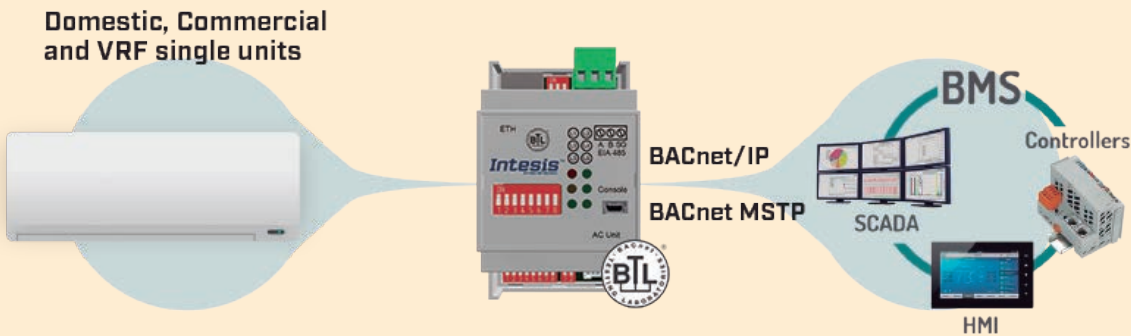
Save configuration time with the powerful scanning functionality.

Our expertise packaged in the best solution for you!



# BACnet interfaces for Air Conditioners

Intesis offers a large portfolio of BACnet interfaces for integration of specific AC brands, supporting both BACnet/IP and BACnet MS/TP integrations with BTL certified solutions.



## Specific features for one to one solutions

- Fast and easy configuration thanks to a dip switch on the product.
- External power supply is not required since it is powered by the AC unit itself.

## Specific features for multi-unit solutions

- Provides advanced BACnet functions such as notification class, trend logs or calendars.
- Controls all connected units from a single BACnet object.



	ORDER CODE	POINT	VERSION
AC Domestic units to BACnet IP/MSTP	INBACDAI001I000	1	I.U.
AC Domestic units to BACnet MSTP	INBACDAI001I100	1	I.U.
VRF and Sky systems to BACnet MSTP	INBACDAI001R100	1	I.U.
VRF and Sky systems to BACnet IP/MSTP	INBACDAI001R000	1	I.U.



VRF systems to BACnet IP/MSTP	INBACHIS016O000	16	I.U.
	INBACHIS064O000	64	I.U.



VRF systems to BACnet IP/MSTP	INBACHIT016O000	16	I.U.
	INBACHIT064O000	64	I.U.



Commercial and VRF systems to BACnet IP/MSTP	INBACMID004I000	4	I.U.
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Domestic, Mr.Slim and City Multi to BACnet IP/MSTP	INBACMIT001I000	1	I.U.
Domestic, Mr.Slim and City Multi to BACnet MSTP	INBACMIT001I100	1	I.U.



FD and VRF systems to BACnet IP/MSTP	INBACMHIO01R000	1	I.U.
FD and VRF systems to BACnet MSTP	INBACMHIO01R100	1	I.U.



Etherea AC units to BACnet IP/MSTP	INBACPAN001I000	1	I.U.
Etherea AC units to BACnet MSTP	INBACPAN001I100	1	I.U.
ECOi and PACi systems to BACnet IP/MSTP	INBACPAN001R000	1	I.U.
ECOi and PACi systems to BACnet MSTP	INBACPAN001R100	1	I.U.
ECOi, ECOg and PACi systems to BACnet IP/MSTP	INBACPAN016O000	16	I.U.
	INBACPAN064O000	64	I.U.
ECOi, ECOg and PACi systems to BACnet IP	INBACPAN128O000	128	I.U.



NASA VRF systems to BACnet IP/MSTP	INBACSAM004O000	4	I.U.
	INBACSAM008O000	8	I.U.
	INBACSAM016O000	16	I.U.
	INBACSAM064O000	64	I.U.



VRF and Digital systems to BACnet IP/MSTP	INBACTOS001R000	1	I.U.
VRF and Digital systems to BACnet MSTP	INBACTOS001R100	1	I.U.



# KNX interfaces for Air Conditioners

For the last decade, Intesis AC interfaces for KNX have been the reference when it comes to integrating Air Conditioning systems into KNX projects. Specific solutions are offered for the most popular AC brands, including a universal solution based on infrared communication.

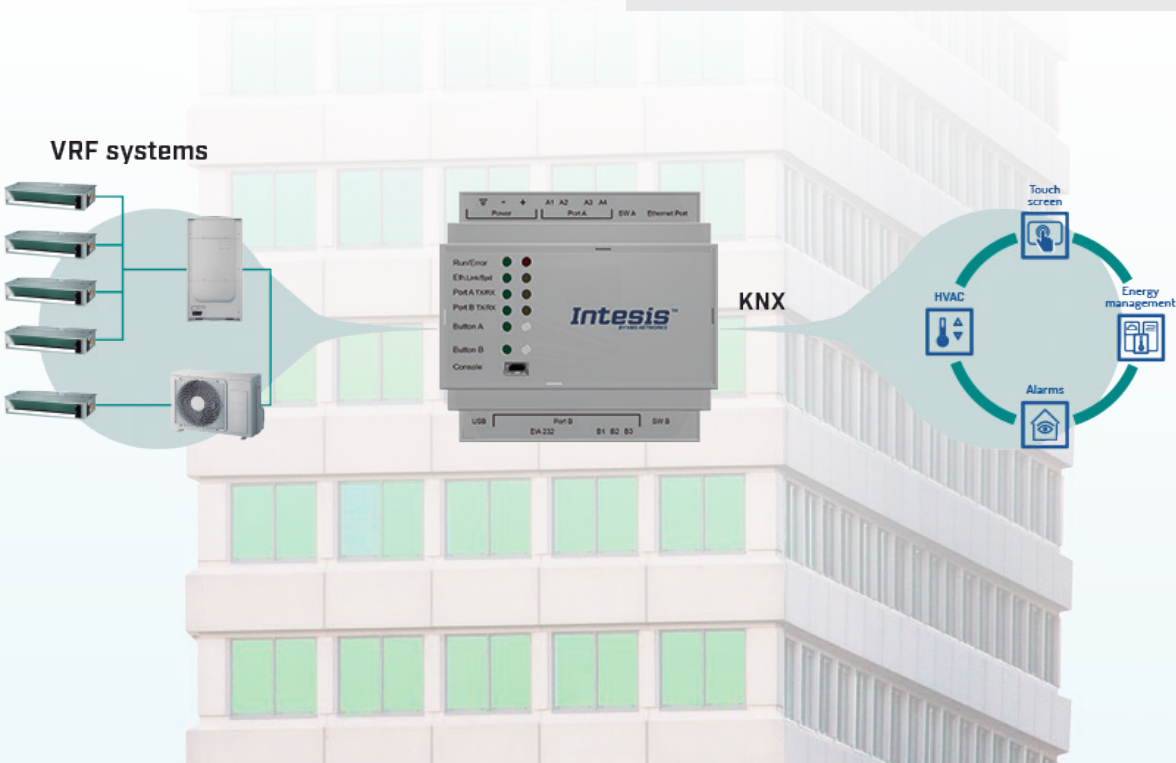


## Specific features for one to one solutions

- Supports all required DPT objects to be compatible with all KNX thermostats in the market.
- Binary inputs for window contacts or presence detectors available in most of the interfaces.

## Specific features for multi-unit solutions

- Smooth integration of KNX thermostats thanks to the “virtual temperature” function.
- Covers a wide range of standard DPTs which ensures interoperability with other KNX devices.

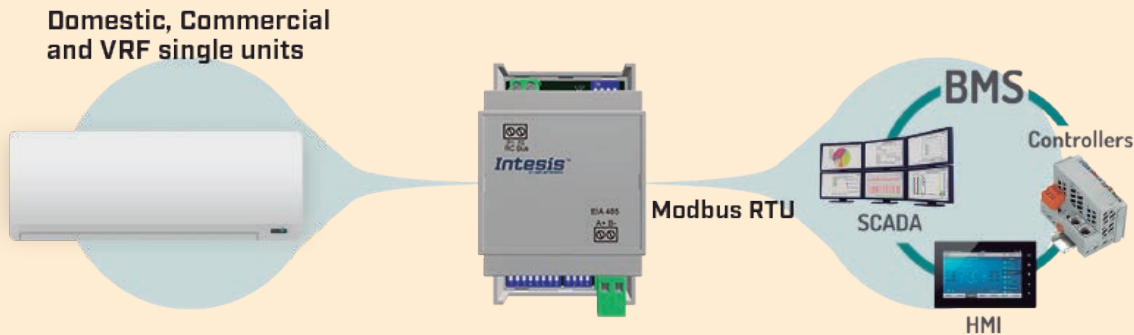


	ORDER CODE	POINT VERSION
<b>DAIKIN</b>		
AC Domestic units to KNX	INKNXDAI001I000 INKNXDAI001I100 INKNXDAI001R000 INKNXDAI001R100	1 I.U. 1 I.U. with Binary Inputs 1 I.U. 1 I.U. with Binary Inputs
VRV and Sky systems to KNX		
<b>FUJITSU</b>		
RAC and VRF systems to KNX VRF systems to KNX	INKNXFGL001R000 INKNXFGL016O000	1 I.U. with Binary Inputs 16 I.U.
<b>Haier</b>		
Commercial and VRF systems to KNX	INKNXHAI008C000 INKNXHAI016C000 INKNXHAI064C000	8 I.U. 16 I.U. 64 I.U.
<b>Hisense</b>		
VRF systems to KNX	INKNXHIS001R000 INKNXHIS016O000 INKNXHIS064O000	1 I.U. with Binary Inputs 16 I.U. 64 I.U.
<b>HITACHI</b>		
Commercial and VRF systems to KNX VRF systems to KNX	INKNXHIT001R000 INKNXHIT016O000 INKNXHIT064O000 INKNXHIT001A000	1 I.U. with Binary Inputs 16 I.U. 64 I.U. 1 I.U.
Air to Water to KNX		
<b>LG</b>		
VRF systems to KNX	INKNXLGE001R000	1 I.U. with Binary Inputs
<b>Midea</b>		
Commercial and VRF systems to KNX	INKNXMID001I000 INKNXMID016I000 INKNXMID064I000	1 I.U. 16 I.U. 64 I.U.
<b>MITSUBISHI ELECTRIC</b>		
Domestic, Mr.Slim and City Multi to KNX City Multi systems to KNX	INKNXMIT001I000 INKNXMIT001I100 INKNXMIT015C000 INKNXMIT100C000	1 I.U. 1 I.U. with Binary Inputs 15 I.U. 100 I.U.
<b>MITSUBISHI HEAVY INDUSTRIES, LTD.</b>		
FD and VRF systems to KNX VRF systems to KNX	INKNXMHI001R000 INKNXMHI048O000 INKNXMHI128O000	1 I.U. with Binary Inputs 48 I.U. 128 I.U.
<b>Panasonic</b>		
Etherea AC units to KNXunit ECOi and PACi systems to KNX ECOi, ECOg and PACi systems to KNX Air to Water (Aquarea H) to KNX	INKNXPAN001I000 INKNXPAN001R000 INKNXPAN016O000 INKNXPAN064O000 INKNXPAN001A000	1 I.U. with Binary Inputs 1 I.U. with Binary Inputs 16 I.U. 64 I.U. 1 I.U.
<b>SAMSUNG</b>		
NASA VRF systems to KNX	INKNXSAM004O000 INKNXSAM008O000 INKNXSAM016O000 INKNXSAM064O000	4 I.U. 8 I.U. 16 I.U. 64 I.U.
<b>TOSHIBA</b>		
VRF and Digital systems to KNX VRF systems to KNX	INKNXTOS001R000 INKNXTOS016O000 INKNXTOS064O000	1 I.U. with Binary Inputs 16 I.U. 64 I.U.
<b>UNIVERSAL</b>		
Universal IR Air Conditioner to KNX	INKNXUNI001I000	1 I.U. with Binary Inputs



# Modbus interfaces for Air Conditioners

Intesis AC interfaces for Modbus form one of the largest portfolios on the market for integration of Air Conditioners into Modbus. The consistent Modbus register mapping used for all AC brands helps shortening the integration time in each project.



## Specific features for one to one solutions

- Consistent register mapping presents a common interface for all AC brands.
- Fast and easy configuration thanks to a dip switch on the product.

## Specific features for multi-unit solutions

- Supports both Modbus RTU and TCP simultaneously.
- Control all connected AC units from a single Modbus register.

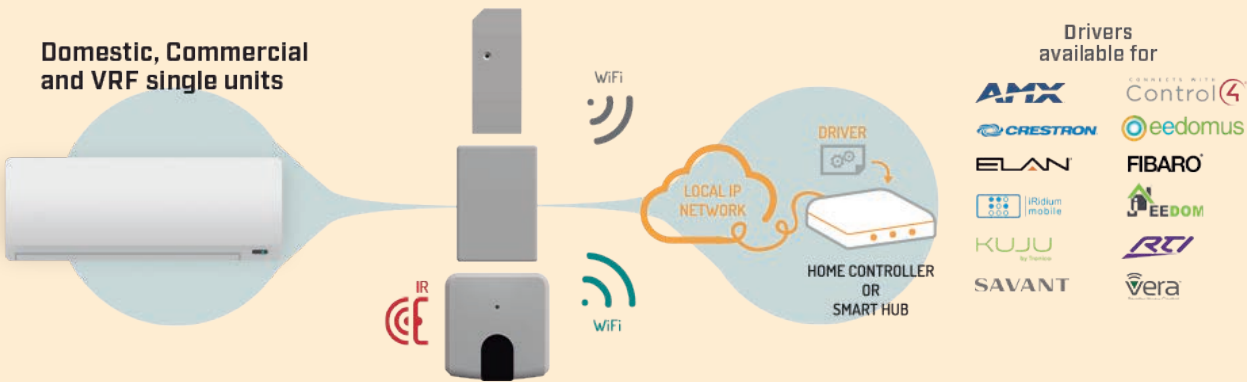


	ORDER CODE	POINT	VERSION
	AC Domestic units to Modbus RTU	INMBSDAI001I000	1 I.U.
	VRV and Sky systems to Modbus RTU	INMBSDAI001R000	1 I.U.
	RAC and VRF systems to Modbus RTU	INMBSFGL001R000	1 I.U. (to remote controller)
		INMBSFGL001I000	1 I.U. (to CN connector)
	VRF systems to Modbus TCP/RTU	INMBSFGL016O000	16 I.U.
	VRF systems to Modbus RTU	INMBSHIS001R000	1 I.U.
	VRF systems to Modbus TCP/RTU	INMBSHIS016O000	16 I.U.
		INMBSHIS064O000	64 I.U.
	VRF systems to Modbus RTU	INMBSHIT001R000	1 I.U.
	VRF systems to Modbus TCP/RTU	INMBSHIT016O000	16 I.U.
		INMBSHIT064O000	64 I.U.
	VRF systems to Modbus RTU	INMBSLGE001R000	1 I.U.
	Commercial and VRF systems to Modbus RTU	INMBSMID001I000	1 I.U.
		INMBSMID004I000	4 I.U.
		INMBSMID008I000	8 I.U.
		INMBSMID032I000	32 I.U.
	Domestic, Mr. Slim and City Multi lines to Modbus RTU	INMBSMIT001I000	1 I.U.
	City multi systems to Modbus TCP/RTU	INMBSMIT050C000	50 I.U.
		INMBSMIT100C000	100 I.U.
	FD and VRF systems to Modbus RTU	INMBSMHI001R000	1 I.U.
	VRF systems to Modbus TCP/RTU	INMBSMHI048O000	48 I.U.
		INMBSMHI128O000	128 I.U.
	Etherea AC units to Modbus RTU	INMBSPAN001I100	1 I.U.
	ECOi and PACi systems to Modbus RTU	INMBSPAN001R000	1 I.U.
	ECOi, ECOg and PACi systems to Modbus TCP/RTU	INMBSPAN016O000	16 I.U.
		INMBSPAN064O000	64 I.U.
	ECOi, ECOg and PACi systems to Modbus TCP	INMBSPAN128O000	128 I.U.
	Air to Water (Aquarea H) to Modbus RTU	INMBSPAN001A000	1 I.U.
	NASA units to Modbus RTU	INMBSSAM001R100	1 I.U.
	NASA VRF systems to Modbus TCP/RTU	INMBSSAM004O000	4 I.U.
		INMBSSAM008O000	8 I.U.
		INMBSSAM016O000	16 I.U.
		INMBSSAM064O000	64 I.U.
		INMBSSAM001R000	1 I.U.
	NON-NASA units to Modbus RTU		
	VRF and Digital systems to Modbus RTU	INMBSTOS001R000	1 I.U.



# WiFi interfaces for Air Conditioners

Intesis WiFi interfaces have been specifically designed for AC integration into Home Automation systems. The communication is based on a simple ASCII protocol that can be easily implemented as a driver in Home Controllers or Smart Hubs. With drivers already available from many Home Automation platforms on the market, Air Conditioning units can be easily integrated and controlled.



## General features for WiFi

- WiFi configuration supporting both dynamic or static IPs.
- Drivers available for all major Home Automation manufacturers.
- Easy and open protocol generation of new integration drivers.
- Auto-discovering of WiFi devices installed in the network.
- Two types of solutions: Brand specific solutions with direct connections supporting the unit's error code data, and a universal solution based on infrared (IR) communication.

DAIKIN	ORDER CODE	POINT VERSION
AC Domestic units to WiFi (ASCII)	INWMPDAI001I000	1 I.U.
VRV and Sky systems to WiFi (ASCII)	INWMPDAI001R000	1 I.U.
FUJITSU		
RAC and VRF systems to WiFi (ASCII)	INWMPFGL001R000 INWMPFGL001I000	1 I.U. (to remote controller) 1 I.U. (to CN connector)
LG		
VRF systems to WiFi (ASCII)	INWMPLGE001R000	1 I.U.
MITSUBISHI ELECTRIC		
Domestic, Mr.Slim and City Multi to WiFi (ASCII)	INWMPMIT001I000	1 I.U.
MITSUBISHI HEAVY INDUSTRIES, LTD.		
FD and VRF systems to WiFi (ASCII)	INWMPMHIO01R000	1 I.U.
Domestic units to WiFi (ASCII)	INWMPMHIO01I000	1 I.U.
Panasonic		
Etherea AC units to WiFi (ASCII)	INWMPPAN001I000	1 I.U.
ECOi and PACi systems to WiFi (ASCII)	INWMPPAN001R000	1 I.U.
TOSHIBA		
VRF and Digital systems to WiFi (ASCII)	INWMPTOS001R000	1 I.U.
UNIVERSAL		
Universal IR Air Conditioner to WiFi (ASCII)	INWMPUNI001I000	1 I.U.



## Cloud Solutions

Intesis deep experience in Building Automation protocols and communication solutions for HVAC integration brought to the cloud for straight-forward remote device management. Control and monitor anything, anywhere and anytime.



## Cloud Solutions

Driven by the fast adoption of internet technologies globally, demand is growing in the building and home automation markets for smart cloud-based device connectivity solutions.

With Intesis Cloud Solutions powered by HMS Hub™, customers are able to perform secure remote cloud-based monitoring and control of previously non-connected devices. Packaged as easy-to-deploy end-to-end solutions, Intesis Cloud Solutions include all needed elements to get you going!



**Native application**  
End user oriented Android and iOS native app for on hand mobile device management.



**Web dashboard**  
Professional web based device management tool developed for real time control and monitoring of the installation.



**Flexible and adaptable**  
Adaptable cloud solutions for any project size, need and location, such as residential buildings, schools, bank offices, shops, public buildings and more.



**Distributed projects**  
Ideal for projects with distributed installations. Allows multiple sites to be controlled from the same dashboard.



**User and permission management**  
Grant access for other users and set permissions based on individual needs.



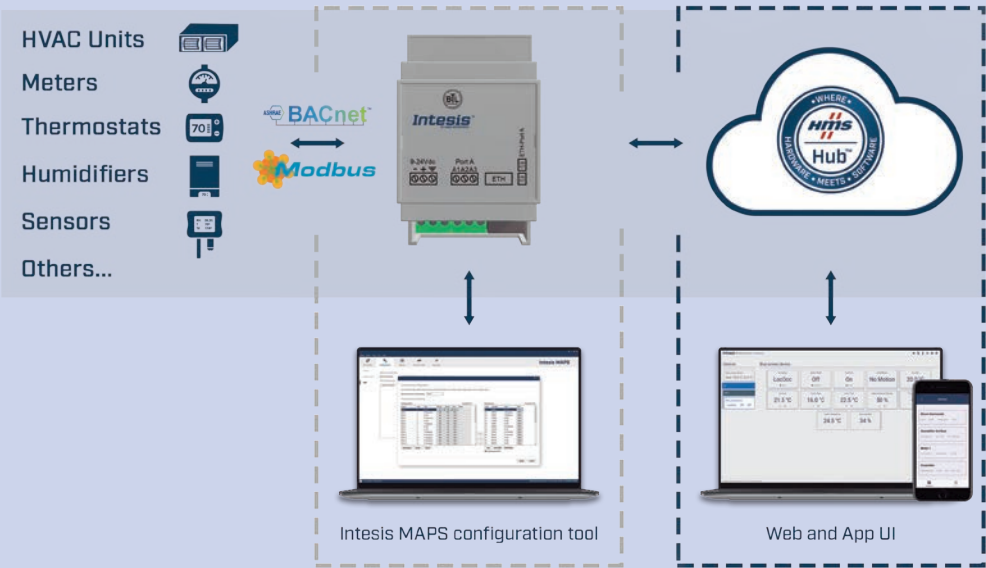
**Quick installation**  
Easy to install devices and intuitive configuration tools for fast project commissioning.



Cloud-based device management



# Intesis ST Cloud Control-remote management of BACnet and Modbus devices



Intesis ST Cloud Control is a cloud based solution from HMS which enables easy monitoring and control of any BACnet or Modbus device from an end user oriented app and a web based dashboard.

Users simply install the ST Cloud Control gateway in the desired location and use Intesis MAPS for PC-based configuration. Here, the widgets can be created (e.g. Booleans, Operating Modes, Dimmers, Analog Values, Error Signals, etc.), mapping them with the BACnet objects or Modbus registers of choice.

Once the gateway is configured and assigned to a user, all devices and widgets will appear automatically in the app and web interfaces, presented in a dashboard.Each user is allowed to create own, customized dashboards, in which devices and widgets can be renamed and reorganized to personal preference.

Intesis ST Cloud Control uses HMS Hub™ for communication between connected devices and the the cloud interface. HMS Hub is an industrially proven edge connectivity solution by HMS Networks, which is now also brought to the building management arena to ensure safe and secure transformation of information.



# Manage and control any BACnet or Modbus device from an App or Web Interface

With ST Cloud Control you are able to connect all types of BACnet or Modbus devices to the cloud, for an intuitive and centralized remote device management through an app or a web interface using a common dashboard.



## Gateway features

- BACnet IP/MSTP or Modbus TCP/RTU connectivity
- Up to 32 devices can be connected to each gateway
- Up to 12 widgets per device
- Easy device configuration using Intesis Maps





## Next level service

- Industrial grade connectivity now for Building Automation
- Fast and scalable real time edge connectivity over HMS Hub™
- Full data control and protection
- Secure and remote updates during the application lifetime



## System Features

- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices
- Calendar that shows the daily planned installation commands
- Notifications keep you updated about system status
- Device sharing and user permissions management
- Multiple site management from a common dashboard

 or 

BACnet or Modbus



ORDER CODE

INSTCMBG0040000  
INSTCMBG0080000  
INSTCMBG0160000  
INSTCMBG0320000

DEVICE VERSION

4 D.V.  
8 D.V.  
16 D.V.  
32 D.V.

Make conventional BACnet or Modbus devices smart with Intesis ST Cloud Control



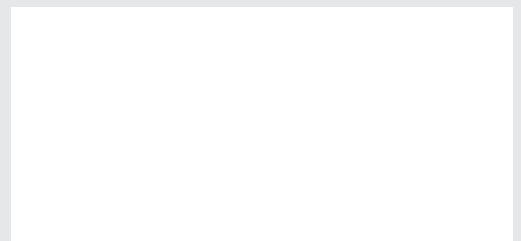


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and IIoT.

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