Intesis™
BY HMS NETWORKS

Gateway solutions for building and home integration

Protocol Translators
Air Conditioning Interfaces
Cloud Solutions

HMS Connecting Devices™

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.

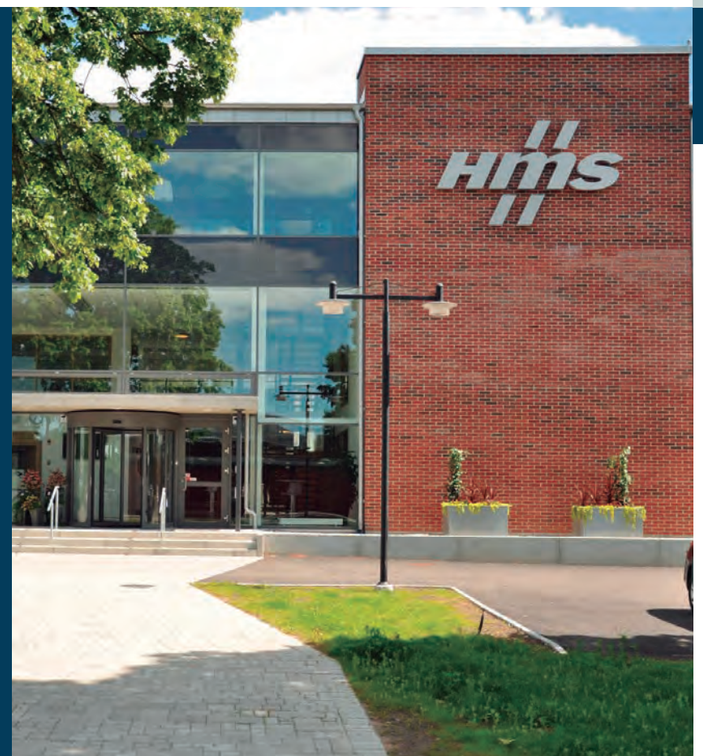
Intesis by HMS Networks

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 independant 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.

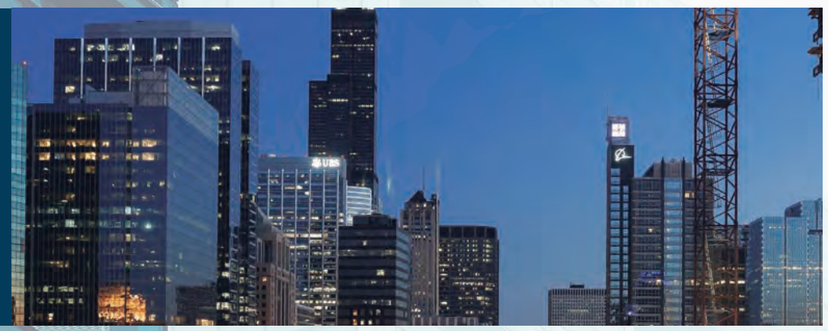
Solutions for every project

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.

LonWorks
M-Bus
DALI 2
KNX
ASHRAE BACnet™
Modbus
PROFI NET®

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

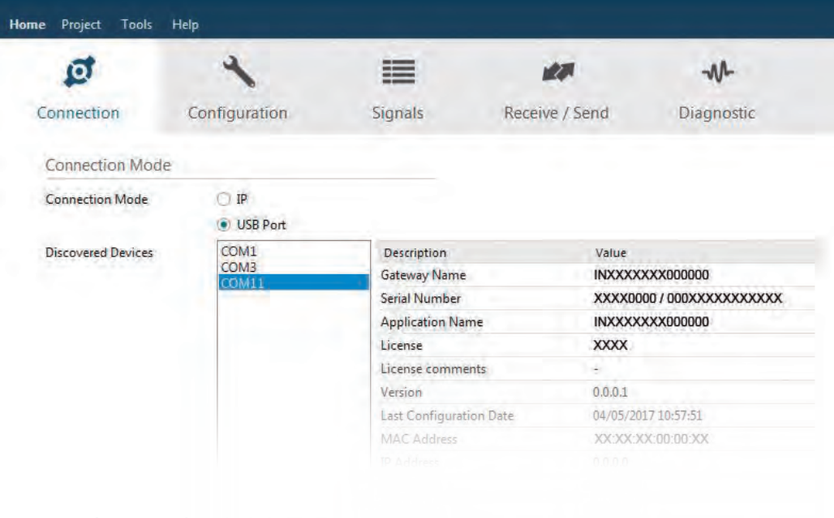
Consuming just 5 DIN-Rail modules, it is easy to fit Intesis protocol translators into cabinets.

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

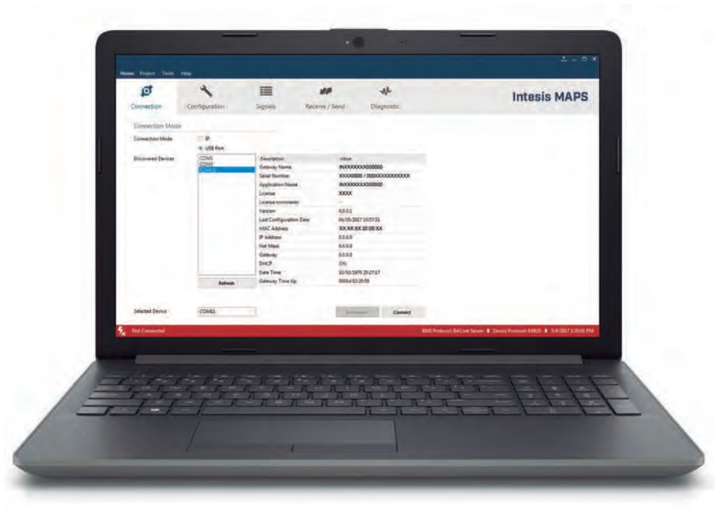


Intesis MAPS

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 **A**ddressing **P**oint **S**olution

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

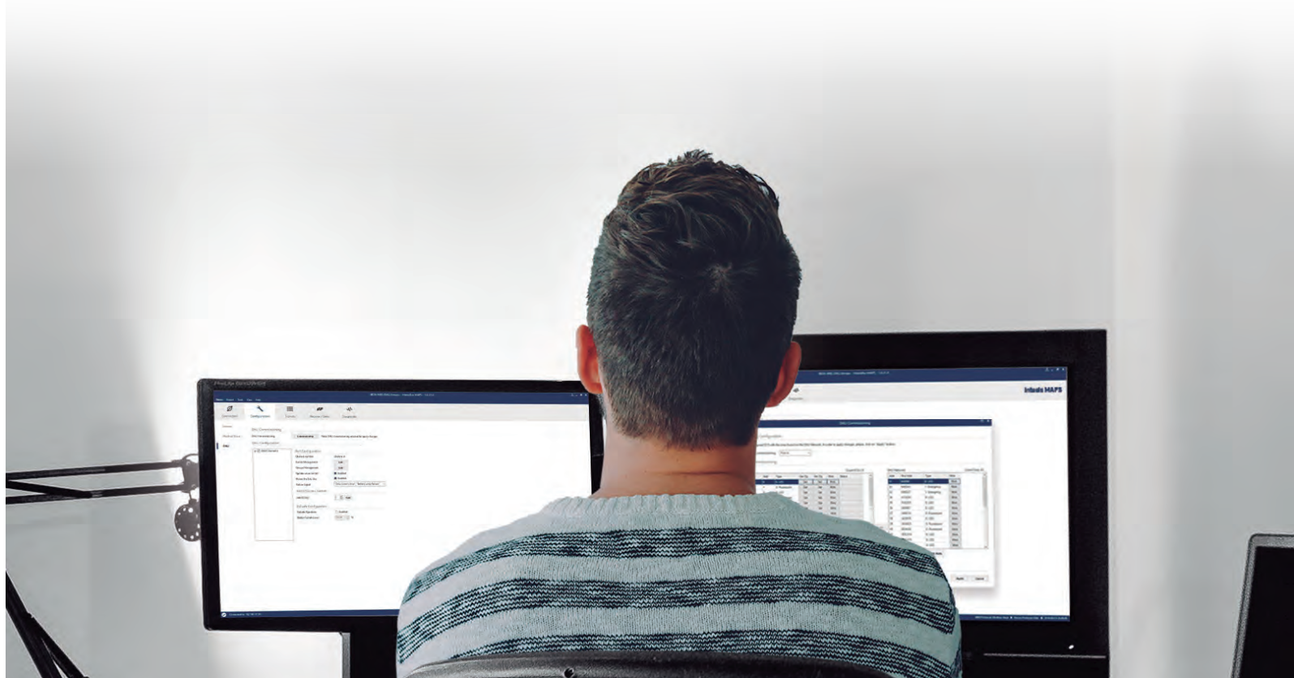
MAPS configuration projects are protected by passwords to prevent unauthorized manipulation of projects and installations.

Recovery

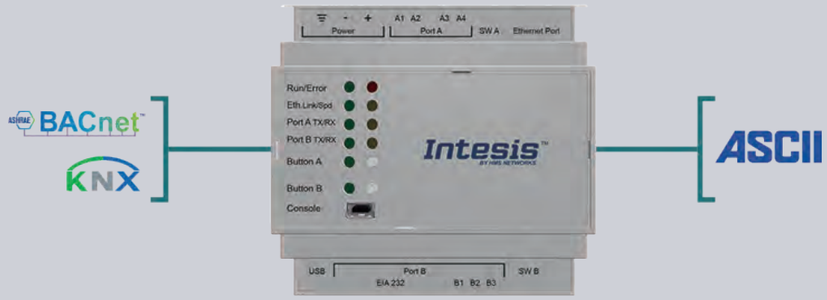
Users can save the gateway configuration project to file for e.g. recovery purposes or in case of gateway replacement.

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

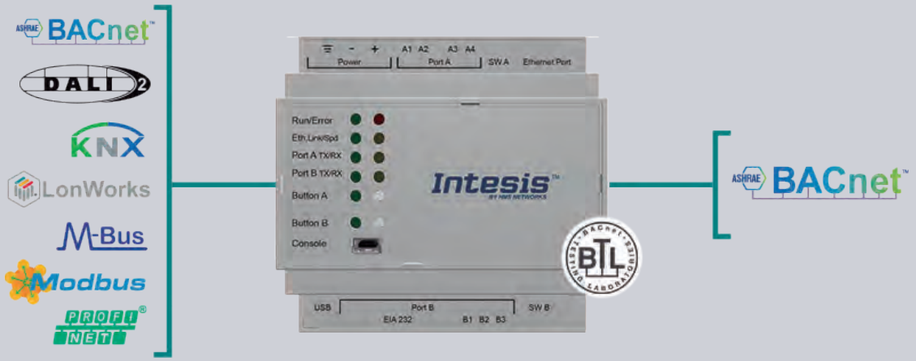
BACnet

	ORDER CODE	POINT VERSION
BACnet to ASCII	**INASCBAC6000000**	**600 P.V.**
	INASCBAC3K00000	**3000 P.V.**

KNX

KNX to ASCII	**INASCKNX6000000**	**600 P.V.**
	INASCKNX3K00000	**3000 P.V.**

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

KNX

	ORDER CODE	POINT VERSION
KNX to BACnet	**INBACKNX1000000**	**100 P.V.**
	INBACKNX2500000	**250 P.V.**
	INBACKNX6000000	**600 P.V.**
	INBACKNX1K20000	**1200 P.V.**
	INBACKNX3K00000	**3000 P.V.**

LonWorks

LonWorks to BACnet	**INBACLON1000000**	**100 P.V.**
	INBACLON2500000	**250 P.V.**
	INBACLON6000000	**600 P.V.**
	INBACLON1K20000	**1200 P.V.**
	INBACLON3K00000	**3000 P.V.**

Modbus

Modbus to BACnet	**INBACMBM1000000**	**100 P.V.**
	INBACMBM2500000	**250 P.V.**
	INBACMBM6000000	**600 P.V.**
	INBACMBM1K20000	**1200 P.V.**
	INBACMBM3K00000	**3000 P.V.**

DALI 2

DALI to BACnet	**INBACDAL0640200**	**64 D.V.** NEW
	INBACDAL1280200	**128 D.V.** NEW

M-Bus

M-Bus to BACnet	**INBACMEB0100000**	**10 D.V.**
	INBACMEB0200000	**20 D.V.**
	INBACMEB0600000	**60 D.V.**
	INBACMEB1200000	**120 D.V.**

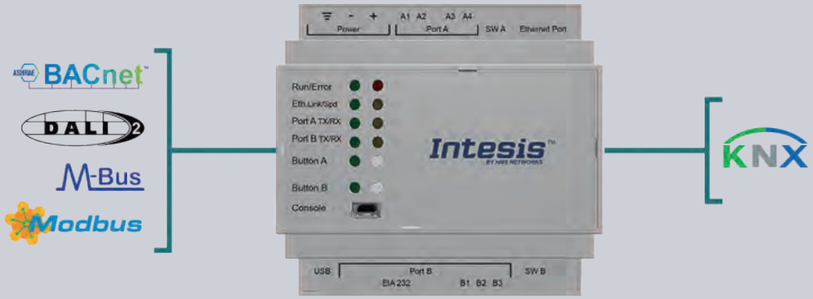
BACnet

BACnet MSTP to BACnet IP Router	**INBACRTR0320000**	**32 D.V.**

PROFINET

PROFINET – BACnet	**INBACPRT1K20000**	**1200 P.V.** NEW

KNX protocol translators



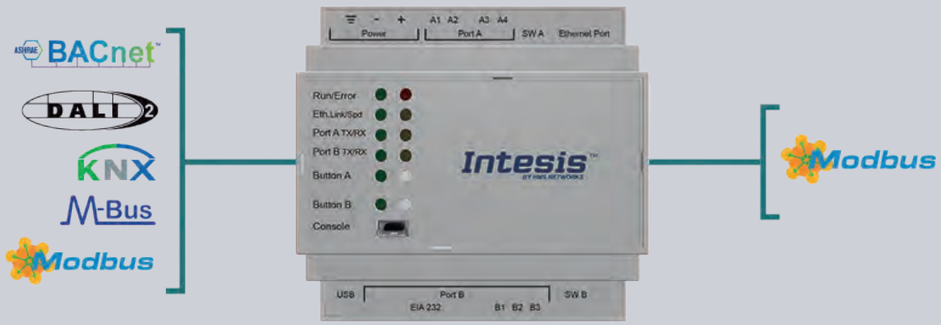
General features for KNX

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 adresses
- Sending and listening addresses
- Ri flag: Read on initialization flag

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

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
BACnet		
BACnet to Modbus	**INMBSBAC1000000**	**100 P.V.**
	INMBSBAC2500000	**250 P.V.**
	INMBSBAC6000000	**600 P.V.**
	INMBSBAC1K20000	**1200 P.V.**
	INMBSBAC3K00000	**3000 P.V.**
KNX		
KNX to Modbus	**INMBSKNX1000000**	**100 P.V.**
	INMBSKNX2500000	**250 P.V.**
	INMBSKNX6000000	**600 P.V.**
	INMBSKNX1K20000	**1200 P.V.**
	INMBSKNX3K00000	**3000 P.V.**
DALI		
DALI to Modbus	**INMBSDAL0640200**	**64 D.V.** NEW
	INMBSDAL1280200	**128 D.V.** NEW
M-Bus		
M-Bus to Modbus	**INMBSMEB0100000**	**10 D.V.**
	INMBSMEB0200000	**20 D.V.**
	INMBSMEB0600000	**60 D.V.**
	INMBSMEB1200000	**120 D.V.**
Modbus		
Modbus RTU to Modbus TCP router	**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
SAMSUNG
DAIKIN
MITSUBISHI ELECTRIC
Midea
Haier
FUJITSU
Panasonic
HITACHI
LG
MITSUBISHI HEAVY INDUSTRIES, LTD.
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.

Easy to use

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

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.

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.

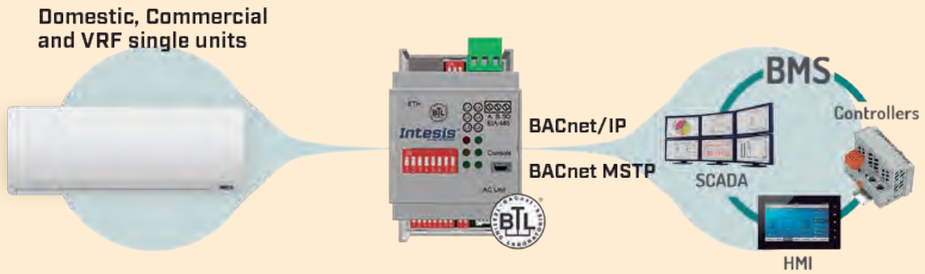
AC units scan

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.

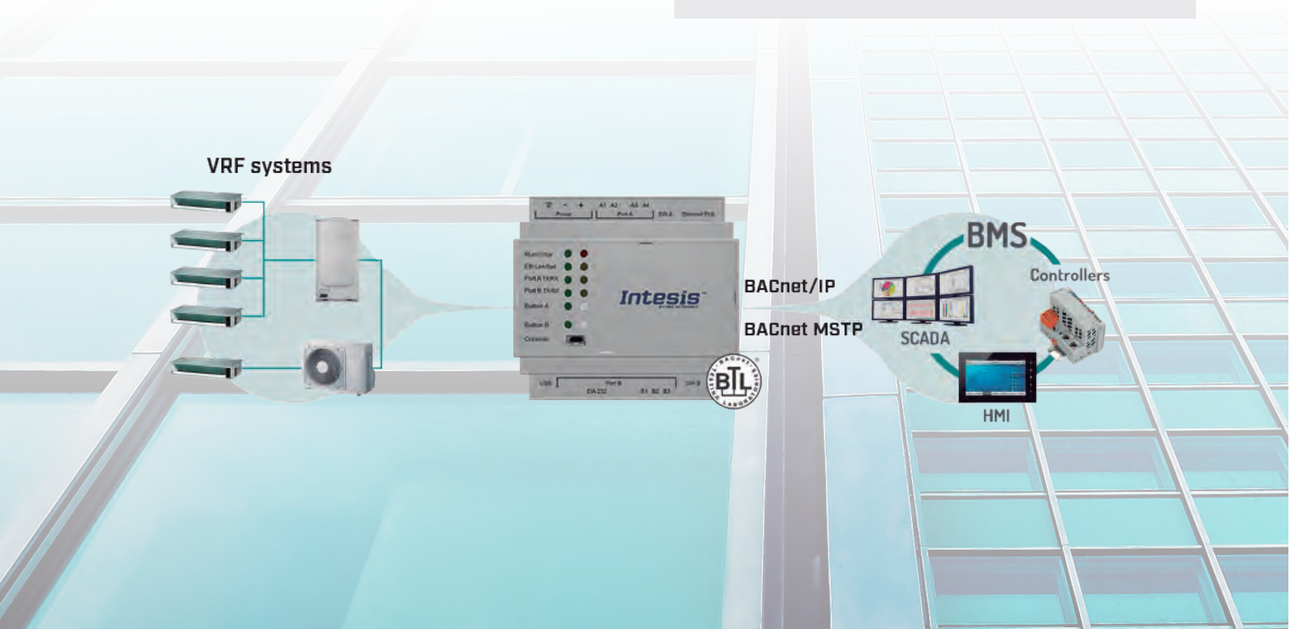


Specific features for one to one solutions

- 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.



DAIKIN	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.**
VRV and Sky systems to BACnet MSTP	**INBACDAI001R100**	**1 I.U.**
VRV and Sky systems to BACnet IP/MSTP	**INBACDAI001R000**	**1 I.U.**

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

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

Midea		
Commercial and VRF systems to BACnet IP/MSTP	**INBACMID004I000**	**4 I.U.**

MITSUBISHI ELECTRIC		
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.**

MITSUBISHI HEAVY INDUSTRIES, LTD.		
FD and VRF systems to BACnet IP/MSTP	**INBACMHI001R000**	**1 I.U.**
FD and VRF systems to BACnet MSTP	**INBACMHI001R100**	**1 I.U.**

Panasonic		
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.**

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

TOSHIBA		
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

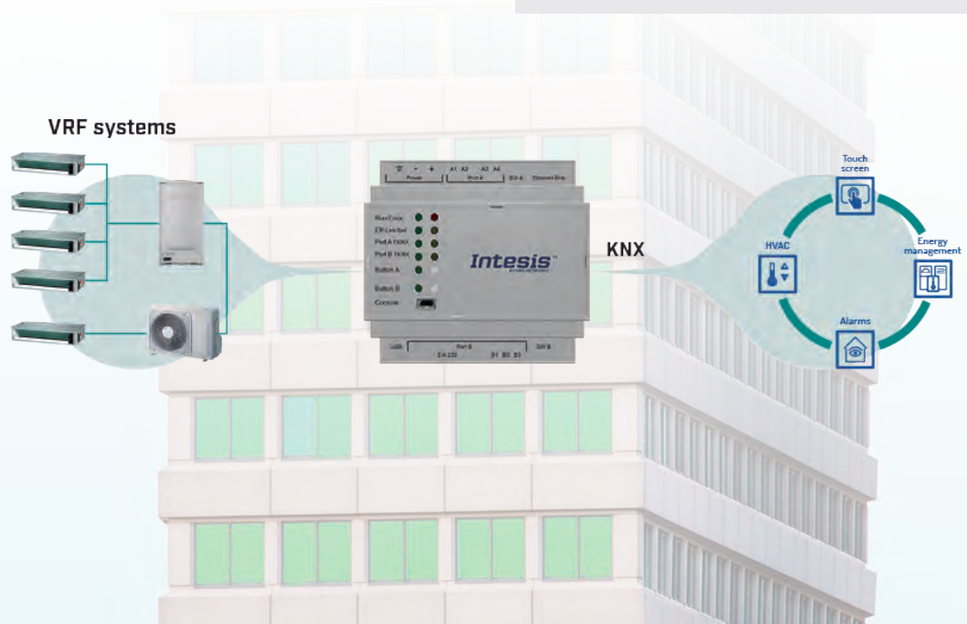
For the last decade, Intesis AC interfaces for KNX have been the reference when it comes to integrating Air Conditioning systems into KNX projects. Specific solutions are offered for the most popular AC brands, including a universal solution based on infrared communication.

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

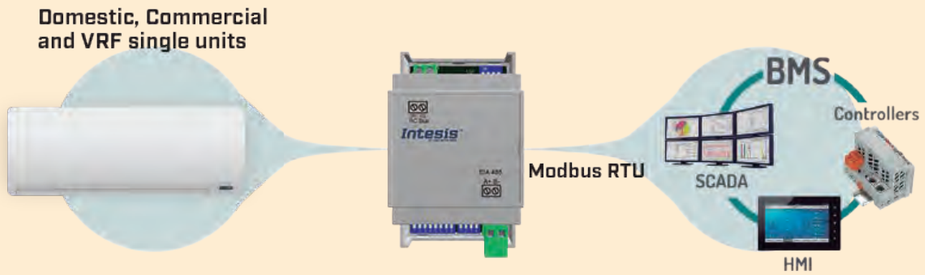
- Smooth integration of KNX thermostats thanks to the “virtual temperature” function.
- Covers a wide range of standard DPTs which ensures interoperability with other KNX devices.



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

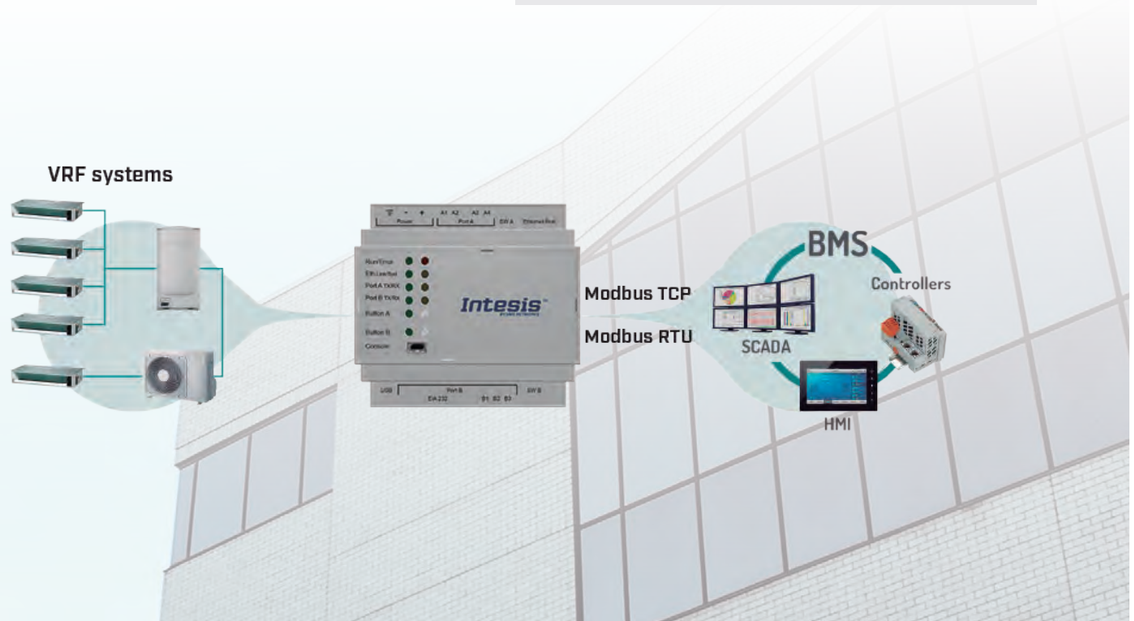


Specific features for one to one solutions

- 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

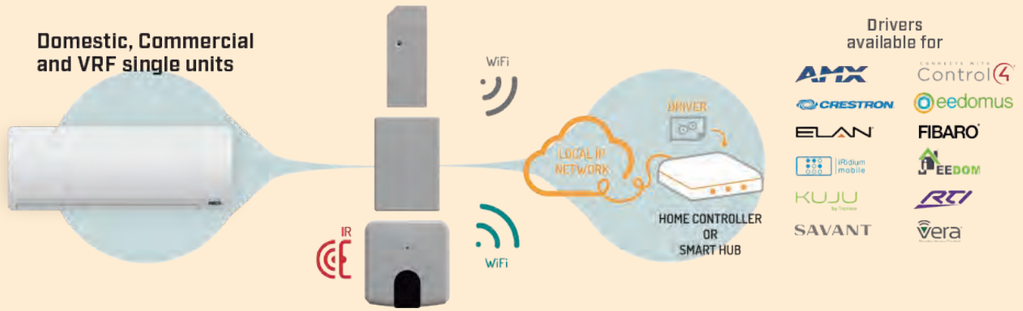
- Supports both Modbus RTU and TCP simultaneously.
- Control all connected AC units from a single Modbus register.



	ORDER CODE	POINT VERSION
DAIKIN		
AC Domestic units to Modbus RTU	**INMBSDAI001I000**	**1 I.U.**
VRV and Sky systems to Modbus RTU	**INMBSDAI001R000**	**1 I.U.**
FUJITSU		
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.**
Hisense		
VRF systems to Modbus RTU	**INMBSHIS001R000**	**1 I.U.**
VRF systems to Modbus TCP/RTU	**INMBSHIS016O000**	**16 I.U.**
	INMBSHIS064O000	**64 I.U.**
HITACHI		
VRF systems to Modbus RTU	**INMBSHIT001R000**	**1 I.U.**
VRF systems to Modbus TCP/RTU	**INMBSHIT016O000**	**16 I.U.**
	INMBSHIT064O000	**64 I.U.**
LG		
VRF systems to Modbus RTU	**INMBSLGE001R000**	**1 I.U.**
Midea		
Commercial and VRF systems to Modbus RTU	**INMBSMID001I000**	**1 I.U.**
	INMBSMID004I000	**4 I.U.**
	INMBSMID008I000	**8 I.U.**
	INMBSMID032I000	**32 I.U.**
MITSUBISHI ELECTRIC		
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.**
MITSUBISHI HEAVY INDUSTRIES, LTD.		
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.**
Panasonic		
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.**
SAMSUNG		
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.**
NON-NASA units to Modbus RTU	**INMBSSAM001R000**	**1 I.U.**
TOSHIBA		
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**	**1 I.U.** *(to remote controller)*
	INWMPFGL001I000	**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)	**INWMPMHI001R000**	**1 I.U.**
Domestic units to WiFi (ASCII)	**INWMPMHI001I000**	**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.

BACnet™ Modbus

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.

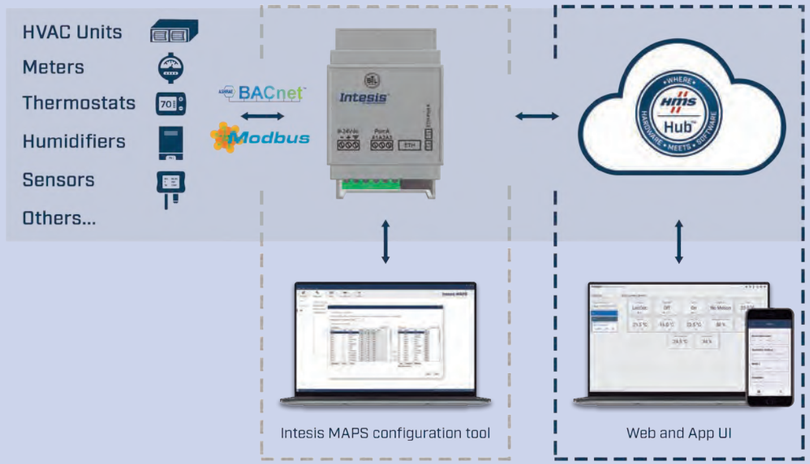
Distributed projects
Ideal for projects with distributed installations. Allows multiple sites to be controlled from the same dashboard.

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

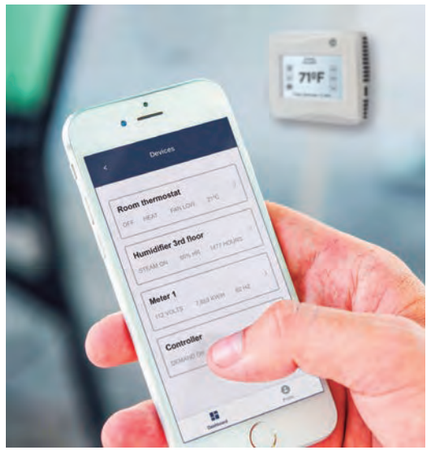
With ST Cloud Control you are able to connect all types of BACnet or Modbus devices to the cloud, for an intuitive and centralized remote device management through an app or a web interface using a common dashboard.

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

BACnet or Modbus	ORDER CODE	DEVICE VERSION
BACnet or Modbus	**INSTCMBG0040000**	**4 D.V.**
	INSTCMBG0080000	**8 D.V.**
	INSTCMBG0160000	**16 D.V.**
	INSTCMBG0320000	**32 D.V.**

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

Work with HMS. The number one choice for industrial communication and IIoT.

HMS Networks - Contact

HMS is represented all over the world.
Find your nearest contact here:

www.hms-networks.com/contact

HMS Connecting Devices™

www.intesis.com