

Gateways for building automation and HVAC control

Connecting sustainable buildings



Intesis connecting buildings

Intesis gateways for building automation cover all relevant standards and technologies, and includes the market's most comprehensive portfolio for HVAC integration with solutions for all major AC-brands.

Robust, reliable and easy to configure, the Intesis product family is widely used for system integration. Users benefit from efficient commissioning and uninterrupted operation.



Intesis by HMS Networks

Intesis is part of HMS Networks, market leader in solutions for industrial communication and the Industrial Internet of Things, IIoT. Intesis is the HMS' main brand for Building Automation products and solutions. Other markets from 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 ICT (Information & Communication Technology). We enable valuable data and insights from industrial equipment, allowing our customers to increase productivity and sustainability.

Employees:	> 1200
Operations:	> 20 countries
Distributors:	> 50 countries
Brands:	Anybus, Ewon, Intesis, Ixxat, Owasys, Red Lion, PEAK-Systems
<u> </u>	

Customers Device manufacturers, machine builders, system integrators, end users

Year founded:

1988



High quality standards

Intesis products are subject to extensive testing and certification processes to ensure the highest quality standards. Also, additional tests are implemented for specific markets.

100% tested

Every product is tested on premises 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.









No matter what building automation protocol or AC brand,



Developed with the support and collaboration of the air conditioning manufacturers, Intesis HVAC Gateways enable high quality integration of climate systems into BACnet, KNX, Modbus, and 2,4 GHz wireless installations.

Network Gateways

BACnet, KNX, Modbus, DALI, M-Bus, ASCII, PROFINET, LonWorks, OCPP, EtherNet/IP — are all supported by Intesis Network Gateways. With cutting edge technology built on a reliable platform, integration solutions are offered for all your needs.



Cloud solutions

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



Intesis has the solution for every project

Intesis MAPS — the configuration tool for Intesis products

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Intesis MAPS

Is an intuitive configuration tool for all Intesis gateways that helps reducing commisioning time.

Intesis MAPS enables easy configuration offering a simple and consistent way to program all gateways. Upon launching Intesis MAPS, the user selects the right template for the application they need and the configuration procedure can start.

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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.



Device scan

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



Diagnostics

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

Recovery Users can save the gateway configuration project to file for e.g., recovery purposes or

in case of gateway replacement.





Product templates

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



Data conversion

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



Secure and safe configuration

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



Update information

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

Be prepared for the integration process

Get ready to start your project even if you are not off-site

Intesis MAPS offers you the possibility of starting your projects even without the Intesis device. Simply start creating your configuration file from the field devices' manual and/or the BMS or SCADA engineer information.

Get everything ready before commissioning

Check your configuration, simulate communications, use our templates, consult our manuals, attend our webinars and get the most of our team experience in a powerful tool. Everything in its right place for a smooth commissioning process.

Template functionality

Thanks to our template functionality you can import already existing templates from third party devices* and include them in your project with a simple click of the mouse. Moreover, you can create your own templates and use them in any of your projects.

* Requires Internet connection.



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Fast, save and secure commissioning and troubleshooting

Even if you are not off-site, remote connections are available to the gateway through IP*, which ensures the possibility of testing the project during the commissioning stage. You can also troubleshoot any possible issue you might face from your office.

-Diagnostic

Save money and time with less travelling

A remote connection drastically reduces the need for travelling since commissioning or troubleshooting can be done from anywhere.

With four simple steps you will be ready to go:



Create your configuration project



Enable communications

*Check with your IT department for more information about external communication configurations.

Perform the commissioning and troubleshooting anywhere

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Network Gateways

When choosing an Intesis Protocol Translator, you can be sure that you get a ready-to-use product which easily solves the complex task of integrating between building automation protocols.







Network Gateways with the latest technology

Intesis Network Gateways 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

Direct and safe access to the configuration via USB or the Ethernet port.



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.



Design for DIN-rail mounting

Using just five DIN-Rail modules, it is easy to fit Intesis Network Gateways into cabinets.



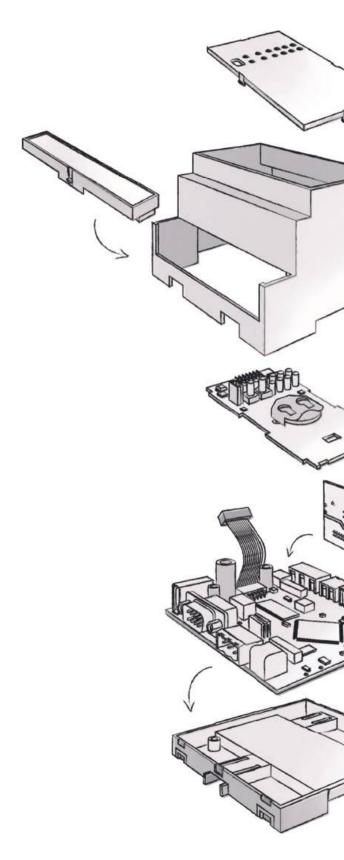
Low power

The Network Gateways are designed for low power consumption for energy efficient operation on-site.



Intesis MAPS Configuration

Powerful configuration of all Intesis Network Gateways for a fast and straight-forward commissioning.



Gateways for Building Automation

Available applications

700 Series Intesis platforms for multi-protocol selection

700 Series is the platform concept for Intesis Network Gateways.

This concept enables interfaces for multiple Building Automation protocols in the same hardware so, the user can pair the combination using Intesis MAPS. The process is called late configuration.

Benefits

- Reduced number of references to stock, optimizing distributor's lead times.
- Late configuration.
- Change applications quickly with our configuration tool Intesis MAPS.
- Diagnostic and troubleshooting tools available.
- Minimize technical service requests.

Product features



Stock-Friendly Multiple protocol combinations

for each hardware.



Versatility

Flexible and agile protocol translation.



User-friendly configuration Easy to set up with Intesis MAPS, our user-friendly configuration tool.



High capacity

Up to 3000 data points of capacity to best match your needs.

Certification International and local certifications. Ready to be sold worldwide



Adapt your gateways to each project needs

Having different protocols available on the same hardware, enable multiple integration possibilities. Each one of the combinations is defined as an application.

Intesis MAPS, the configuration tool for Network Gateways, is the instrument to select the correct application to match your project's needs. Is an easy process you don't need to plan in advance.



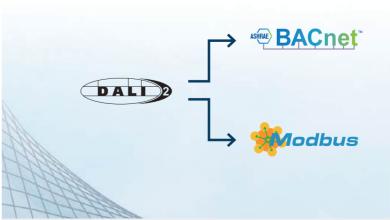
IN700485***0000

Intesis Protocol Translator with Serial and IP support - 100, 250, 600, 1200, and 3000 Points



IN703DAL064000

Intesis DALI-2 Protocol Translator with Serial and IP support - 1 DALI Channel



IN701KNX***0000

Intesis Protocol Translator with KNX, Serial and IP support - 100, 250, 600, 1200, and 3000 Points



IN704DAL1280000 Intesis DALI-2 Protocol Translator with IP support - 2 DALI Channels



ASCII Network Gateways

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BACnet Network Gateways

General features for Supervision and control of BACnet or KI from an ASCII-based control system usin over serial (EIA232, EIA485) or TCP/IP in	■ Cus NX devices can be done ng simple ASCII messages	n ASCII Serial and IP supported tom string signals tom string commands y integration to any BMS	General features for Intesis Network Gateways for BACnet p Server or BACnet MS/TP slave, allowing send subscription requests (COV) to rea communication objects.	erform as a BACnet/IP BACnet controllers to
Application	Order Code	Point Versions	Application	Order Code
BACnet ASCII			KNX I BACnet	
BACnet Client to ASCII Server	IN700485***0000	100, 250, 600, 1200, and 3000 P.V.	KNX to BACnet Server	IN701KNX***0000
			🛍 LonWorks 🕨 🖷 🛱 🖓 🖗	
KNX to ASCII Server	IN701KNX***0000	100, 250, 600, 1200, and 3000 P.V.	LonWorks to BACnet Server	INBACLON***0000
			💏 odbus 🌗 🖷 BACnet	
			Modbus Client to BACnet Server	IN700485***0000
			DALL BACnet	
			DALI to BACnet/IP and MS/TP Server	IN703DAL0640000
			DALI to BACnet/IP Server DALI to BACnet/IP Server	IN704DAL1280000 INBACDAL0640500
			M-Bus BACnet	
			M-Bus to BACnet/IP and MS/TP Server M-Bus to BACnet/IP Server	INBACMEB***000 INBACMEB0*0010
			₩ BACnet BACnet	
			BACnet MS/TP to BACnet/IP Router	INBACRTR0320000
			BACnet - PROFINET Server	INBACPRT1K20000
			EtherNet/IP 🜗 🖷 BACnet	
			BACnet - EtherNet/IP Server	INBACEIP1K20000

BTL certified
BACnet/IP and MS/TP

- BBMD and foreign Device
- Notification Classes

P.V. - Point Versions der Code D.V. - Device Versions

*0000	100, 250, 600, 1200, and 3000 P.V.

0000	
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100, 250, 600, 1200, and 3000 P.V.

100, 250, 600, 1200, and 3000 P.V.

40000	64 D.V.	
80000	128 D.V.	
40500	64 D.V.	

BACMEB***0000 BACMEB0*00100

10, 20, 60, and 120 D.V. 20 and 50 D.V.

32 D.V.

1200 P.V.

1200 P.V.

KNX Network Gateways

Modbus Network Gateways

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	P.V Point Versions D.V Device Versions
IN701KNX***0000	100, 250, 600, 1200, and 3000 P.V.
IN701KNX***0000	100, 250, 600, 1200, and 3000 P.V.
INKNXMBM1000200	100 P.V.
INKNXDAL0640300	64 D.V.
INKNXMEB***0000	10, 20, 60, and 120 D.V.
	IN701KNX***0000 IN701KNX***0000 INKNXMBM1000200 INKNXDAL0640300

General features f The Modbus Network Gateways act a connection) and/or Modbus RTU slav	sin Or Modbus s TCP Servers (Ethernet es (serial EIA232,EIA485).	odbus TCP and RTU nultaneously ils, holding registers and fields supported Iltiple data formats g-endian or Little-endian
Application	Order Code	P.V Point Versions D.V Device Versions
BACnet Client to Modbus Server	IN700485***0000	100, 250, 600, 1200, and 3000 F
KNX to Modbus Server	IN701KNX***0000	100, 250, 600, 1200, and 3000
DALI to Modbus TCP and RTU Server DALI to Modbus TCP Server DALI to Modbus TCP Server	IN703DAL0640000 IN704DAL1280000 INMBSDAL0640500	64 D.V. 128 D.V. 64 D.V.
M-Bus to Modbus TCP and RTU Server M-Bus to Modbus TCP Server	INMBSMEB***0000 INMBSMEB0*00100	10, 20, 60, and 120 D.V. 20 and 50 D.V.
Modbus RTU to Modbus TCP router	INMBSRTR0320000	32 D.V.
OCPP to Modbus Server	INMBSOCP***0100	1 and 20 Chargers

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HVAC Gateways

Intesis owns a wide portfolio of reliable interfaces for HVAC control, developed with the support and collaboration of the HVAC makers, certified from the main protocols and for all markets. The interfaces are developed with the goal of reducing buildings energy consumption and improve user's comfort.



Intesis — The right choice for HVAC integration

In 2006, Intesis launched the first certified product to integrate expansion air conditioning units into KNX. Today, after many years of experience and more than 1 million HVAC units integrated around the world. Intesis can offer a wide range of Intesis HVAC Gateways for integrating 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 HVAC Gateways, 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.

Intesis HVAC Gateways — key features



One to one

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



Brand specific products Specific solutions for all major air

conditioning brands.



Universal IR solution

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

Our expertise packaged in the best solution for you!

Easy to use

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

Trusted

HVAC Gateways from Intesis are trusted by system integrators all over the world, covering all major protocols needed within building automation.



Multi-unit

Control multiple indoor units from a single AC Interface.



Direct connection

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



AC units scan

Save configuration time with the powerful scanning functionality.



HVAC Gateways Multiple indoor unit control

Available applications

700 Series Air Intesis common platform for HVAC integration

700 Series Air is the platform concept for Intesis HVAC Gateways.

This concept enables interfaces for multiple HVAC Brands and Building Automation protocols in the same hardware so, the user can pair the combination using Intesis MAPS. The process is called late configuration.

Benefits

- Match your hardware with your HVAC system application with just a few clicks.
- Exchangeable AC brands and system Protocols combinations.
- Common configuration tool for all of them: Intesis MAPS.
- Hardware series for the major AC manufacturers and standard protocols in the market.
- Enable energy efficiency functions by calculating the individual consumption of each indoor unit.

Product features



Stock-Friendly All the possible combinations in one product.



3 Binary Inputs

For Energy Saving purposes.



User-friendly configuration Easy to set up with Intesis MAPS, our user-friendly configuration tool.



High capacity

Up to 128 indoor units depending on the model.

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Certification International and local certifications. Ready to be sold worldwide



Match the brand with the communication protocol

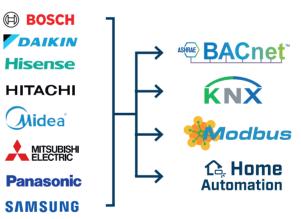
Having different HVAC brands and Building Automation protocols available on the same hardware, enable multiple integration possibilities. Each HVAC to protocol combination is defined as an application.

Intesis MAPS is the configuration tool that will allow you to select the correct application and match your project's needs. Is an easy process you don't need to plan in advance.



IN770AIR***0000

Intesis multi-brand AC Interface with KNX, Serial and IP support. Available licenses: XXS, S and M



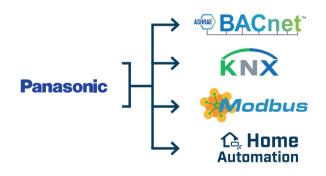
IN776MHI***0000

Mitsubishi Heavy Industries VRF with KNX, Serial and IP support. Available licenses: XXS, S, M and L



IN771AIR***0000

Intesis multi-brand AC Interface with KNX, Serial and IP support. Available licenses: L



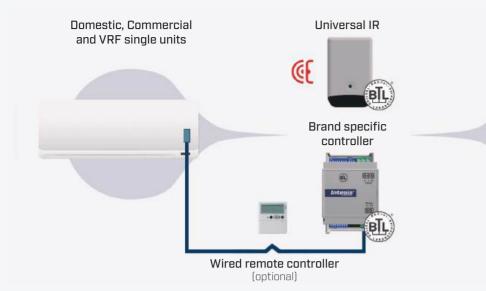
IN775FGL***0000

Fujitsu AC interface with KNX, Serial and IP support. Available licenses: XXS, S and M



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 switches.
- External power supply is not required since it is powered by the AC unit itself.
- 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.

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.

BACnet/IP

BACnet MS/TP

BMS

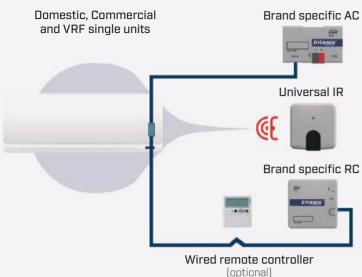
Controllors



				Order Ceda	Indoor Unito
	BOSCH		BACnet	Order Code	Indoor Units
NEW	VRF systems to BA	Cnet/IP or	MS/TP	IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
	DAIKIN				
NEW	AC Domestic units AC Domestic units VRV and Sky syster VRV and Sky syster VRF systems to BAG	to BACnet ns to BAC ns to BAC	MS/TP net MS/TP net/IP or MS/TP	INBACDAI001I000 IN485DAI001I000 IN485DAI001R000 INBACDAI001R000 IN770AIR***O000	1 I.U. 1 I.U. 1 I.U. 1 I.U. 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
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NEW	RAC and VRF to BA VRF systems to BA	,		IN485FGL0011000 IN775FGL***0000	1 I.U. (to CN connector) 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
	Hisense		BACnet		
	VRF systems to BA	Cnet/IP or	MS/TP	IN770AIR***0000	16 I.U. (S) and 64 I.U. (M)
	HITACHI		BACnet		
NEW	VRF systems to BA Commercial and VI VRF systems to BA	RF system	s to BACnet/IP or MS/TP	IN770AIR***0000 INBACHIT001R000 IN485HIT001R000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M) 1 I.U. 1 I.U.
	Midea		BACnet		
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NEW		and City N	Multi to BACnet/IP or MS/TP Multi to BACnet MS/TP t/IP or MS/TP	INBACMIT0011000 IN485MIT0011000 IN770AIR***0000	1 I.U. 1 I.U. 15 Groups (XXS), 50 Groups (S), 100 Groups (M)
			BACnet		
NEW	FD and VRF system FD and VRF system VRF systems to BAG	is to BACn	et MS/TP	INBACMHI001R000 IN485MHI001R000 IN776MHI***0000	1 I.U. 1 I.U. 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M), 128 I.U. (L)
	Panasonic		BACnet		
NEW	, 0	BACnet I ems to BA ems to BA Ci systems	MS/TP Cnet/IP or MS/TP	INBACPAN0011000 IN485PAN0011000 INBACPAN001R000 INBACPAN001R100 IN770AIR***O000 IN771AIR***O000	1 I.U. 1 I.U. 1 I.U. 1 I.U. 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M) 128 I.U. (L)
	SAMSUNG		BACnet		
NEW	NASA VRF systems NASA commercial			IN770AIR***O000 INBACSAM001R100	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M) 1 I.U.
	TOSHIBA		BACnet		
	VRF and Digital sys VRF and Digital sys		ACnet/IP or MS/TP ACnet MS/TP	INBACTOS001R000 INBACTOS001R100	1 I.U. 1 I.U.
	UNIVERSAL		BACnet		
	Universal IR air cor	nditioner t	o BACnet MS/TP	IN485UNI001I100	1 I.U.

KNX interfaces for air conditioners

For the last decade, Intesis HVAC Gateways for KNX have been the reference when it comes to integrate 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.
- 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.

Specific features for multi-unit solutions

Smooth integration of KNX thermostats thanks to the "virtual temperature" function.

KNX

Touch screen

HVAC

1÷

Energy management

Covers a wide range of standard DPTs which ensures interoperability with other KNX devices.

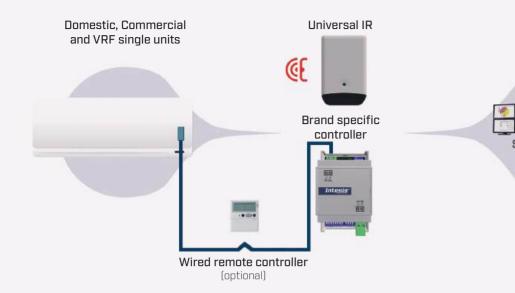


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City Multi systems to KNX IN770AIR***0000 15 Groups (XXS), 50 Groups (S), 100 Groups			1 I.U.
Image: Note of the system is to KNX FD and VRF systems to KNX VRF systems to KNX INKNXMHI001R000 INT76MHI***0000 11.U. with Binary Input 41.U. (XXS), 16 I.U. (S), 64 I.U. (M), 128 I.U Panasonic INKNXPAN0011000 11.U. with Binary Input Etherea AC units to KNX unit ECOi and PACi systems to KNX INKNXPAN001000 11.U. with Binary Input INKNXPAN001000 11.U. with Binary Input KICOG and PACi systems to KNX INKNXPAN00101000 11.U. ECOi and PACi systems to KNX INT70AIR***0000 11.U. (XXS), 16 I.U. (S), 64 I.U. (M) ECOI, ECOg and PACi systems to KNX INT71AIR***0000 11.01 SAMSUNG INXA NASA VRF systems to KNX INKNXTOS001R000 11.U. with Binary Input INKNXTOS***0000 11.U. with Binary Input INKNXTOS***0000 16 and 64 I.U. UNIVERSAL			
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VRF and Digital systems to KNX INKNXTOS001R000 1 I.U. with Binary Input VRF systems to KNX INKNXTOS***0000 16 and 64 I.U. UNIVERSAL INX		NY	
VRF systems to KNX INKNXTOS***0000 16 and 64 I.U. UNIVERSAL KNX			
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		NX	
	,		1 I.U. with 2 Binary Inputs

25

Modbus interfaces for air conditioners

Intesis HVAC Gateways 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.
- 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.

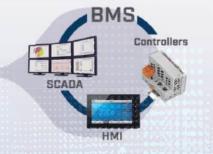
Specific features for multi-unit solutions

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

VRF systems







Modbus TCP

Modbus RTU

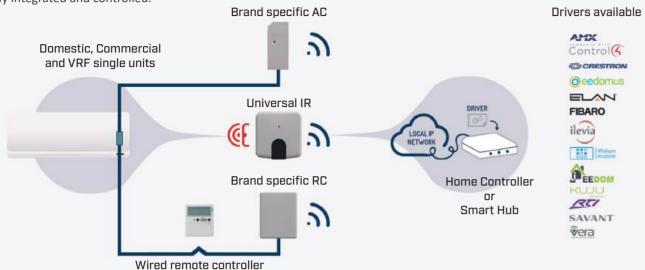
Modbus RTU

BMS

BOSCH		Modbus	Order Code	Indoor Units
VRF systems to Mo	odbus TCI	P/RTU	IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
DAIKIN		Modbus		
AC Domestic units			INMBSDAI001I000	1 I.U.
VRV and Sky system			IN485DAI001R000 IN770AIR***0000	1 I.U.
VRF systems to Mo	JUDUS ICI	9810		4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
FUJITSU		Modbus		
RAC and VRF system	ms to Mo	odbus RTU	INMBSFGL001R000	1 I.U. (to remote controller)
VRF systems to Mo	odbus TCI	P/RTU	IN485FGL001I000 IN775FGL***0000	1 I.U. (to CN connector) 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
Hisense		Modbus		
VRF systems to Mo	odhus RTI	ल्यु -	INMBSHIS001R000	1 I.U.
VRF systems to Mc			IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
HITACHI		Modbus		
Commercial and V	'RF systen	ns to Modbus RTU	IN485HIT001R000	1 I.U.
VRF systems to Mo	odbus TCI	P/RTU	IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
🕒 LG		Modbus		
VRF systems to Mo	odbus RTI	U	INMBSLGE001R000	1 I.U.
		Modbus		
Commercial and VR	RF system	s to Modbus RTU	IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
Commercial and VR	RF systems	s to Modbus RTU	INMBSMID001I000	1 I.U.
		Modbus		
		Multi lines to Modbus RTU	INMBSMIT001I000	1 I.U.
City Multi systems	to Modb	us TCP/RTU	IN770AIR***0000	15 Groups (XXS), 50 Groups (S), 100 Group
MITSUBISHI		Modbus		
FD and VRF system			INMBSMHI001R000	1 I.U.
VRF systems to Mo	odbus TCI	P/RTU	IN776MHI***O000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M), 128 I.U
Panasonic		Modbus		
Etherea AC units to	o Modbus	s RTU	INMBSPAN001I100	1 I.U.
ECOi and PACi syste Air to Water (Aqua			INMBSPAN001R000 INMBSPAN001A000	1 I.U. 1 I.U.
		ns to Modbus TCP/RTU	IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
ECOi, ECOg and PA	Ci system	ns to Modbus TCP/RTU	IN771AIR***0000	128 I.U. (L)
SAMSUNG		Modbus		
NASA units to Mod			INMBSSAM001R100 IN770AIR***0000	1 I.U.
NASA VRF systems NON-NASA units to			INMBSSAM001R000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M) 1 I.U.
TOSHIBA		Modbus		
VRF and Digital sys	stems to	ज्यु ⁰	INMBSTOS001R000	1 I.U.
		8m		
UNIVERSAL		Modbus		
Universal IR air coi	nditioner	to Modbus RTU	IN485UNI001I100	1 I.U.

Home Automation interfaces for air conditioners

Intesis Home Automation 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.



Specific features for one-to-one solutions

Wi-Fi configuration supporting both dynamic or static IPs.

(optional)

- Auto-discovering of Wi-Fi 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.

Specific features for multi-unit solutions

- Integrate up to 128 AC units with a single interface.
- Direct ethernet connection to the home's local IP network.
- All the benefits of having Intesis MAPS as configuration and diagnostic tool.



BOSCH		Modbus	Order Code	Indoor Units
VRF systems to Mo	odbus TC	P/RTU	IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
DAIKIN		企. Home Automation	Order Code	Indoor Units
AC Domestic units			INWMPDAI001I000	1 I.U.
VRV and Sky system VRF systems to Ma			INWMPDAI001R000 IN770AIR***0000	1 . U.
VRF SYSLEMS LO IVIC	Jubus TCI	P/RIU		4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
FUĴITSU		合。 Home Automation		
RAC and VRF syste	ms to Ho	ome Automation	INWMPFGL001R000	1 I.U. (to remote controller)
VRF systems to Ho	me Auto	mation	INWMPFGL001I000 IN775FGL***0000	1 I.U. (to CN connector) 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
Hisense		合。 Home Automation		
VRF systems to Ho	me Auto		IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
		G. Home		
	P Arit	Automation	101770410***0000	
VRF systems to Ho	me Auto		IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
🕑 LG		企。Home Automation		
VRF systems to Ho	me Auto	mation	INWMPLGE001R000	1 I.U.
Midea		ය. Home Automation		
Commercial and V	RF syster	ns to Home Automation	IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
		ය. Home Automation		
		Iulti to Home Automation	INWMPMIT001I000	1 I.U.
City Multi systems	to Home	Automation	IN770AIR***0000	15 Groups (XXS), 50 Groups (S), 100 Grou
		슈, Home Automation		
FD and VRF system			INWMPMHI001R000	1 I.U.
Domestic units to I VRF systems to Ho			INWMPMHI001I000 IN776MHI***0000	1 I.U. 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M), 128 I.
• · · · · · · · · · · · · · · · · · · ·				(200), 10 (3), 04 (10), 120 .
Panasonic		ය. Home Automation		
Etherea AC units to				1 I.U.
ECOi and PACi syst		ome Automation ns to Home Automation	INWMPPAN001R000 IN770AIR***0000	1 I.U. 4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
-		ns to Home Automation	IN771AIR***0000	128 I.U. (L)
SAMSUNG		ය. Home Automation		
NASA VRF systems	to Home		IN770AIR***0000	4 I.U. (XXS), 16 I.U. (S), 64 I.U. (M)
		ය. Home		
TOSHIBA	stems to	Automation	INWMPTOS001R000	1 I.U.
		HOME AUTOINUTION		11.0.
VRF and Digital sys	stems to			
		C: Home Automation		

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Modbus			1	compatibility
ORDER CODE	PRODUCT DESCRIPTION	ADDITIONAL INFORMATION	REQUIRED ACCESSOR	r
IN4850AI001R000	Daikin VRV and Sky systems to	Up to 1 Indoor Unit	None	*
KNIX			20	ompatibilities
ORDER CODE	PRODUCT DESCRIPTION	ADDITIONAL INFORMATION	REQUIRED ACCESSOR	c.
INKNXOAIOO1ROOO	Dalkin VRV and 5ky systems to	Up to 1 Indoor Unit	None	~
INKNXOAIOOIRIOO	Daikin VRV and Sky systems to	• Up to 1 Indoor Unit	None	Ý
IACnet			2	com patibilities

HVAC Compatibility Tool

The new AC compatibility tool provides a fast and reliable way to check the compatibility of air conditioning units with Intesis interfaces.

Forget the time-consuming task of searching an AC unit's reference into an endless compatibility document. Thanks to the search engine of the new web-based tool, get the answer you are looking for with a click.



Search Engine

Type the first letters of your AC reference and get suggestions to make the search even easier.



Compatible AC units More than 2500 models already in our

database. New units are included every day!



Updated information

We can ensure updated information thanks to the ease of maintenance of the tool.



The support behind

Can't you find your AC unit in the database? Send us a request and we will indicate you the best solution for your AC.



portfolio.

in one year.



CO2 saved by... 6,000,000 trees in one year



CO2 generated by... 23,438 European people in a year



CO2 generated by... 652,173,913 PC working during one hour



CO2 generated by... 340,909 flights from London to New York

30

Intesis helps you to reduce your carbon footprint

Intesis is committed to reduce the CO₂ emission of air conditioning units by offering the best integration product

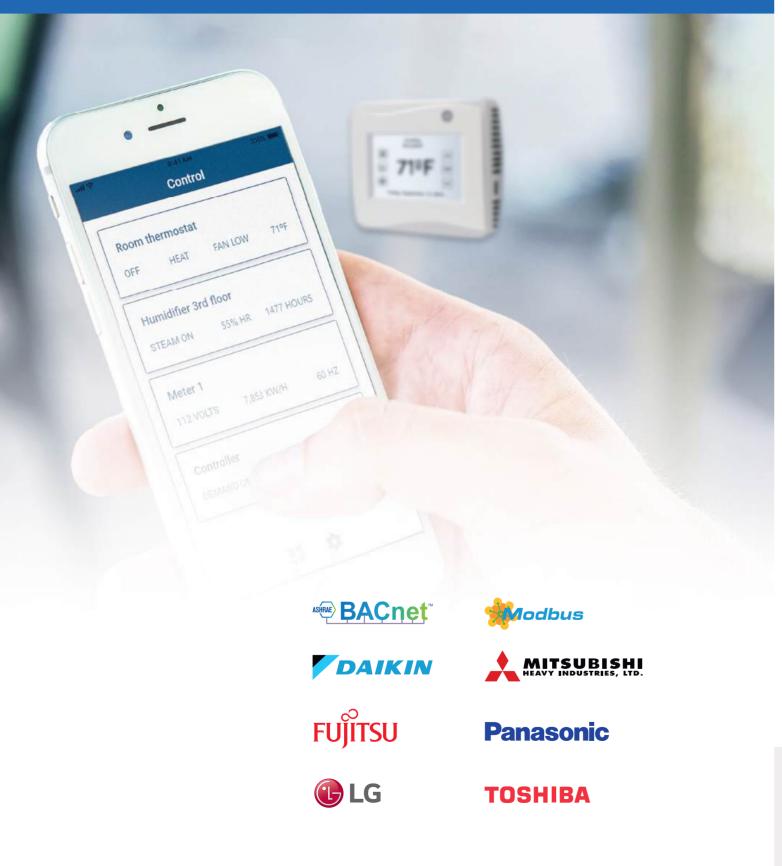
For more than 10 years, we have provided gateways to control more than 1 million air conditioning units around the world. The estimated energy consumption from these units is more than 1,7 billion KWh/year. But thanks to our gateways, 509 million kWh are saved, that means 150 million on Kg CO₂ savings.

This figure is equivalent to the total CO₂ that 652 million PCs generate during an hour, or the same than 6 million trees absorb



Cloud Solutions

Intesis brings extensive experience in developing communication interfaces for HVAC integration, now available on the cloud for convenient remote management. With these platforms, you can easily control and monitor any building from anywhere and at any time.



Empowering Smart Building Automation

The increasing global adoption of internet technologies has spurred demand in the building automation market for intelligent connectivity solutions.

Intesis meets this demand with their cloud solutions powered by HMS Hub[™], enabling customers to securely monitor and control previously unconnected devices from a remote location. These end-to-end solutions are packaged for effortless deployment, encompassing all necessary elements to get started.



Native application

End-user-oriented Android and iOS App for 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.



Multi-site projects

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



User and permission management

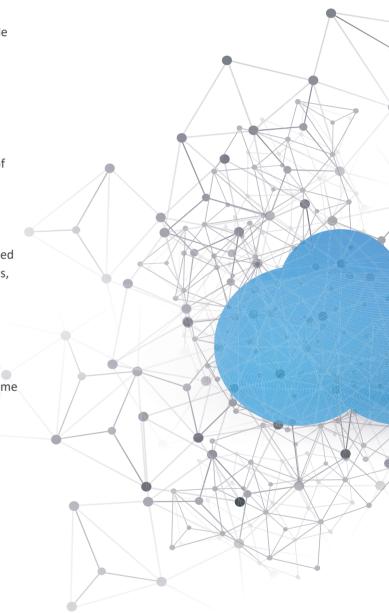
Grant access for other users and set permissions based on individual needs.



Quick installation

Easy-to-install devices and intuitive configuration tools for fast project commissioning.

Cloud management leads to increased energy efficiency and cost savings



Intesis ST Cloud Control



Intesis ST Cloud Control is an HMS cloud-based solution which enables easy monitoring and control of any BACnet or Modbus device by using our end user oriented App and web based dashboard.

Users simply need to 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 their own customized dashboards, in which devices and widgets can be renamed and reorganized according to personal preferences.

Green screen derice Heat 19.5 °C 21.0 °C	LocOcc	Off	0 ••	1	No Motion	20.0 °C	
Blue screen device LocOca Off Off	21.5 °C	Unocs Heat 16.0 °C - +	22.5	°C	Dehumatication Serpoint 50 % - +	Fan:	Devices
		10.00	5°C		4 %	Hum	n thermostat HEAT PARELOW idifier 3rd floor LON 50% HIL r 1 LTE 2.855 K00H
County II I March Schwart S.L.E. 2010 Tell on control	words -					DEMA	roller 10 ON 118 PA 2010 O
							10

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 or MS/TP 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.





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



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.

Weekly 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.

Device Versions

4, 8, 16, and 32 D.V.

Intesis AC Cloud Control



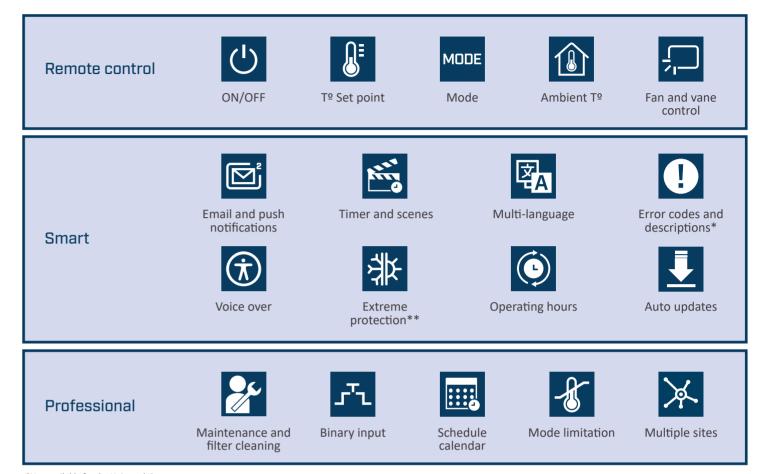
AC Cloud Control is an HVAC IoT solution that allows comfortable and intuitive control of air conditioners and heat pumps from a smartphone, tablet, smart watch or from a simple internet browser.

The AC Cloud Control gateways, developed together with the major AC manufacturers, offer cloud connectivity to a wide range of compatible AC units. No cables are needed for cloud connectivity, as the devices use Wi-Fi technology to bring all the data to the cloud.

The bidirectional communication between Intesis devices and the AC unit, ensures the end user can keep using the manufacturers remote controller if desired, while keeping the cloud system updated with the real status of the HVAC units.

The gateways can be managed using a web-based dashboard, so no additional management tool needs to be be installed. User friendly Android and iOS Apps are available.

AC Cloud Control Functionalities



*Not available for the Universal IR gateway.

**Available for the INWFIMHI001R100, INWFITOS001R100 and INWFIUNI001I000 products.

AC Cloud Control main strengths



Multiple brands and multiple sites Organize any brand and model in three different levels.



Secondary users Manage who can monitor and control each unit.



Email and push notifications

Be aware of everything that happens in your climate system.

Control the HVAC system remotely and reduce up to 30% of energy



Energy saving and maintenance functionalities

Special functionalities to help our customers increase energy efficiency.



Professional API for 3rd party integration

Connect your system to Intesis Cloud Solutions and offer bidirectional HVAC control to your customers.

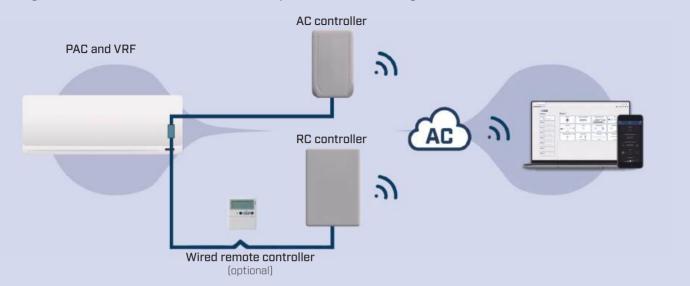


OEM projects

Reduce the time to market and maintenance costs, our R&D resources are at your disposal.

Effortless and Secure Remote AC Management

AC Cloud Control devices are designed to enable remote control of air conditioning units through cloud connectivity. These devices use the local Wi-Fi network to establish a reliable data connection, operating at a frequency of 2.4GHz and compatible with b/g/n. The communication between devices is optimized for IoT, ensuring minimal communication issues.



Specific features for brand specific devices

- Devices designed and developed along with the major AC manufacturers, using the proprietary communication protocol of each manufacturer.
- Offers advanced parameters like error signals, error codes, power consumption*.
- Domestic controllers are directly connected to the internal electronic card, and specifically designed for RAC and domestic lines.
- The VRF and commercial interfaces are connected to the HVAC remote control bus, and specifically designed for PAC and VRF.

Specific features for universal controller

- Offers compatibility for thousands of AC models.
- Only requires an indoor unit that has an IR receiver working with a standard wireless infrared remote controller.
- The AC feedback is enabled through the embedded IR receiver.

AC

- Allows using the universal and the manufacturer's controller at the same time.
- The Universal controller is specifically designed for PAC, RAC and VRF.

DAIKIN		AC Cloud Control	Order Code	Indoor Units
AC Domestic units VRV and Sky syste			INWFIDAI0011100 INWFIDAI001R100	1 I.U. 1 I.U.
		1 /		
FUjitsu		AC Cloud Control		
RAC and VRF syste	ems to V	/i-Fi (ASCII)	INWFIFGL0011100	1 I.U.
			INWFIFGL001R100	1 I.U.
🕒 LG		AC Cloud Control		
VRF systems to Wi	i-Fi (ASC	11)	INWFILGE001R100	1 I.U.
		AC Cloud Control		
FD and VRF systems to Wi-Fi (ASCII)			INWFIMHI001I100	1 I.U.
Domestic units to	Wi-Fi (A	SCII)	INWFIMHI001R100	1 I.U.
Panasonic		AC Cloud Control		
Etherea AC units to			INWFIPAN001I100	1 I.U.
ECOi and PACi syst	ems to	Wi-Fi (ASCII)	INWFIPAN001R100	1 I.U.
TOSHIBA		AC Cloud Control		
VRF and Digital sys	P		INWFITOS001R100	1 I.U.
the and Digital Sy.				1101
UNIVERSAL		AC Cloud Control		
l Iniversal IR air co	nditione	er to Wi-Ei (ASCII)	INW/EILINI0011000	1 with Binary Input

Universal IR air conditioner to Wi-Fi (ASCII)

INWFIUNI001I000

PAC, RAC and VRF

Universal IR

@

*Depending on the AC brand.

38

1 I.U. with Binary Input



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HMS Networks - Contact

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