

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.

- > 750 Employees:
- Locations: in 17 countries
 - Distributors: > 50 countries
 - Brands: Anybus, Ewon, Intesis, Ixxat

Customers: Device manufacturers, machine builders, system

Year founded:

1988

integrators, end users



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,



Air conditioning interfaces

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

Protocol Translators

BACnet, KNX, Modbus, DALI, M-Bus, ASCII, PROFINET, LonWorks, OCPP, EtherNet/IP — are all supported by Intesis Protocol Translators. 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 solutions for every project



Intesis MAPS — the configuration tool for Intesis products

lome Project Tools Help ٦ Ø ~~ Connection Configuration Signals Receive / Send Diagnostic **Connection Mode** Connection Mode O IP USB Port Discovered Devices COM1 Description Value COM3 Gateway Name Serial Number XXXX0000 / 000XXXXXXXXXXX Application Name License License comments 0001 Version XX/XX/XXXX 00.00.00 Last Configuration Date XX·XX·XX·00·00·00

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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		ECG 4	4	6: LED	Get	Set	Wink			35	A1E205	6: LED	Wink		
		ECG 5	5	1: Emergency	Get	Set	Weik			36	A89961	6: LED	Wink		
		ECG 6	6	6: LED	Get	Set	Wink			37	A88018	0: Fluorescent	Wink		
		ECG 7	7	6: LED	Get	Set	Wink			38	AD5970	6: LED	Wink		
		ECG 8	8	1: Emergency	Get	Set	Wink			39	8A34C0	0: Ruorescent	Wink		
		ECG 9	9	0: Fluorescent	Get	Set	Wink			40	824A24	0: Ruorescent	Wink		
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													Apply	Cancel	





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.

Re Use

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.



1	Home Project	Tools	Help										
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											75		ACH550 CONT

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.

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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Diagnostic	

Intesis MAPS

			Modbus S	erver Temp	nplates					
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Protocol Translators

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.



P<u>IRIOIF</u>

TNTETT

indicate if there is a communication issue.

11

....

IQ

IP/USB console

LED indicator matrix

Multiple LED indicators confirm that all protocols are communicating properly or

installation, configuration and deployment.

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 Protocol Translators into cabinets.



Low power

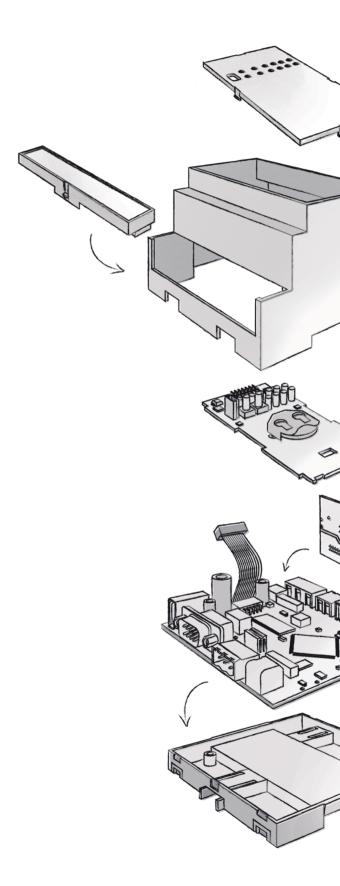
The Protocol Translators are designed for low power consumption for energy efficient operation on-site.

Intesis MAPS Configuration

Powerful configuration of all Intesis Protocol Translators for a fast and straight-forward commissioning.

Protocol Translators with the latest technology

Intesis Protocol Translators include the most recent and modern technology, assembled in user-friendly products to facilitate



Protocol conversion in Building Automation

Available applications

NEW 700 Series Intesis platforms for multi-protocol selection

700 Series is the new platform concept for Intesis Protocol Translators. 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.

\bigotimes

Certification International and local certifications. Ready to be sold worldwide



Adapt your Protocol Translator 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 Protocol Translators, 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 & 3000 Points





IN701KNX***0000

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





ASCII Protocol Translators

BACnet Protocol Translators

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KNX Protocol Translators

Modbus 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

Application	Order Code	P.V Point Versions D.V Device Versions
BACnet INX		
BACnet Client to KNX	IN701KNX***0000	100, 250, 600, 1200 & 3000 P.V. 餋
🚧odbus 🜗 KNX		
Modbus Client to KNX	IN701KNX***0000	100, 250, 600, 1200 & 3000 P.V. 餋
Modbus RTU to KNX	INKNXMBM1000200	100 P.V.
DALID KNX		
DALI to KNX	INKNXDAL0640200	64 D.V.
M-Bus KNX		
M-Bus to KNX	INKNXMEB***0000	10, 20, 60 & 120 D.V.

General features for Modbus

The Modbus Protocol Translators act as TCP Servers (Ethernet connection) and/or Modbus RTU slaves (serial EIA232,EIA485).

≝BACnet ♦ ∰dodbus	
BACnet Client to Modbus Server	IN700485
BACHEL CHERT TO WOODUS SERVER	111700485
KNX 🜗 🚧odbus	
KNX to Modbus Server	IN701KN
DALL	
DALI to Modbus Server	INMBSDA
DALI LO IVIOUDUS SEI VEI	INNUDJUF
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DALI to Woubus Server	INNUSSE
	MMDSDF
	INMBSD
M-Bus	
M-Bus	
M-Bus to Modbus Server	
M-Bus Nodbus Server	INMBSM
M-Bus Modbus Server	INMBSM
M-Bus Nodbus Server	INMBSM

	 Modbus TCP and RTU simultaneously Coils, holding registers and bitfields supported Multiple data formats Big-endian or Little-endian
de	P.V Point Versions D.V Device Versions
0000	100, 250, 600, 1200 & 3000 P.V. 🎓
0000	100, 250, 600, 1200 & 3000 P.V.
*0200	64 & 128 D.V.
*0000	10, 20, 60 & 120 D.V.
20000	32 D.V.
*0100	1 & 20 Chargers

Air conditioning interfaces

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 AC Interfaces 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 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.

Intesis AC Interfaces — 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

AC Interfaces 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 AC Interfaces 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

NFW 700 Series Air Intesis common platform for HVAC integration

700 Series Air is the new platform concept for Intesis AC Interfaces.

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.

Certification International and local certifications. Ready to be sold worldwide



Match the brand with the communication protocol

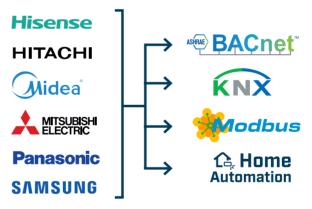
Having different HVAC brands and Building Automation protocols available on the same hardware, enable multiple integration possibilities. Each HVAC to protocol combination is defined as an application.

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.



IN770AIR00*0000

Intesis multi-brand AC Interface with KNX, Serial and IP support - Small & Medium



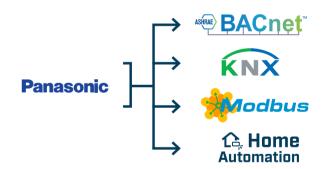
IN776MHI00*0000

Mitsubishi Heavy Industries VRF with KNX, Serial and IP support - Small, Medium & Large



IN771AIR00L0000

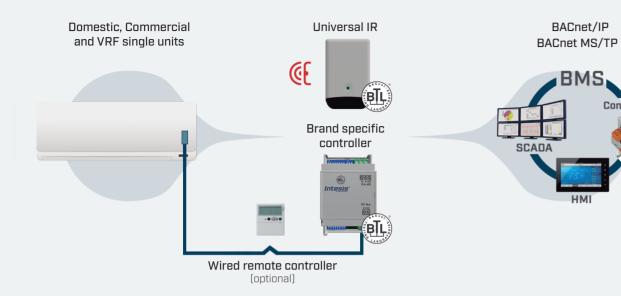
Intesis multi-brand AC Interface with KNX, Serial and IP support - Large





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

BMS.

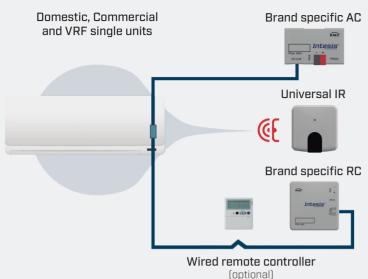
Controllers



BOSCH		BACnet	Order Code	Indoor Units	
Commercial and VR	F system:	s to BACnet/IP or MS/TP	INBACACA0041000	4 I.U.	
DAIKIN		BACnet			
AC Domestic units AC Domestic units VRV and Sky system VRV and Sky system	to BACne ns to BA	et MS/TP Cnet MS/TP	INBACDA10011000 IN485DA10011000 IN485DA1001R000 INBACDA1001R000	1 I.U. 1 I.U. 1 I.U. 1 I.U.	NEV
FUjitsu		BACnet			
Fujitsu RAC and VR	F to BAC	înet MS/TP	IN485FGL0011000	1 I.U. (to CN connector)	NEW
Hisense		BACnet			
VRF systems to BAG	Cnet/IP c	or MS/TP	IN770AIR00*0000	16 I.U. (S) & 64 I.U. (M)	7. Set
НІТАСНІ		BACnet			
VRF systems to BAC Commercial and VI VRF systems to BAC	RF syster	ns to BACnet/IP or MS/TP	IN770AIR00*0000 INBACHIT001R000 IN485HIT001R000	16 I.U. (S) & 64 I.U. (M) 1 I.U. 1 I.U.	NEW
Midea		BACnet			
Midea Comm. & VI Commercial and VR		Cnet MS/TP s to BACnet/IP or MS/TP	INBACMID0011100 IN770AIR00*0000	1 I.U. 16 I.U. (S) & 64 I.U. (M)	7
		BACnet			
	and City	Multi to BACnet/IP or MS/TP Multi to BACnet MS/TP et/IP or MS/TP	INBACMIT0011000 IN485MIT0011000 IN770AIR00*0000	1 I.U. 1 I.U. 50 Groups (S) & 100 Groups (M)	NEW
		BACnet			
FD and VRF system FD and VRF system VRF systems to BAG	s to BAC	net MS/TP	INBACMHI001R000 IN485MHI001R000 IN776MHI00*O000	1 I.U. 1 I.U. 16 I.U. (S), 64 I.U. (M) & 128 I.U. (L)	NEW
Panasonic		BACnet			
	BACnet ems to B ems to B Ci systen	MS/TP ACnet/IP or MS/TP	INBACPAN0011000 IN485PAN0011000 INBACPAN001R000 INBACPAN001R100 IN770AIR00*O000 IN771AIR00L0000	1 I.U. 1 I.U. 1 I.U. 1 I.U. 16 I.U. (S) & 64 I.U. (M) 128 I.U. (L)	
SAMSUNG		BACnet			
NASA VRF systems NASA commercial (IN770AIR00*O000 INBACSAM001R100	16 I.U. (S) & 64 I.U. (M) 1 I.U.	2. Sector
TOSHIBA		BACnet			
VRF and Digital sys VRF and Digital sys		BACnet/IP or MS/TP BACnet MS/TP	INBACTOS001R000 INBACTOS001R100	1 I.U. 1 I.U.	
UNIVERSAL		BACnet			
Universal IR air cor	nditioner	to BACnet MS/TP	IN485UNI001I100	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 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

Energy management

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



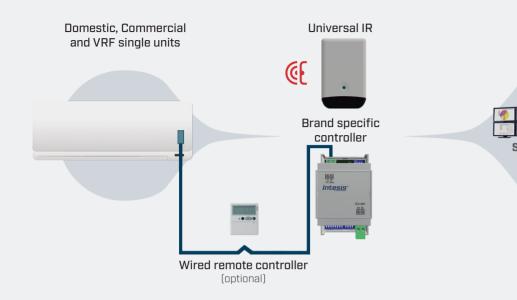
	KNX	Order Code	Indoor Units	
RF systen	ns to KNX	INKNXACA***I000	1, 16 & 64 I.U.	_
	KNX			
to KNX		INKNXDAI001I000	1 I.U.	_
ns to KNX	K	INKNXDAI0011100 INKNXDAI001R000 INKNXDAI001R100	1 I.U.	
	KNX			
		INKNXFGL0011000 INKNXFGL001R000 INKNXFGL016O000	1 I.U. with B.I. (to CN connector) 1 I.U. with B.I. (to remote controller) 16 I.U.	
	KNX			
RF systen	ns to KNX	INKNXHAI***C000	8, 16 & 64 I.U.	_
	KNX			
< <		INKNXHIS001R000 IN770AIR00*0000	1 I.U. with Binary Inputs 16 I.U. (S) & 64 I.U. (M)	7.
	KNX			
RF system ((ns to KNX	INKNXHIT001R000 IN770AIR00*0000 INKNXHIT001A000	1 I.U. with Binary Inputs 16 I.U. (S) & 64 I.U. (M) 1 I.U.	7
	KNX			
{		INKNXLGE001R000	1 I.U. with Binary Inputs	_
<		INKNXLGE***O000	16 & 64 I.U.	
	KNX			
RF systen	ns to KNX	IN770AIR00*0000	16 I.U. (S) & 64 I.U. (M)	7. Gerte
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to KNX		INKNXMIT0011100 IN770AIR00*O000		T.
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s to KNX		INKNXMHI001R000 IN776MHI00*O000	1 I.U. with Binary Inputs 16 I.U. (S), 64 I.U. (M) & 128 I.U. (L)	T.
	KNX			
		INKNXPAN001I000	1 I.U. with Binary Inputs	_
		INKNXPAN001R000 INKNXPAN001A000	1 I.U.	
Ci system	is to KNX	IN770AIR00*0000 IN771AIR00L0000	16 I.U. (S) & 64 I.U. (M) 128 I.U. (L)	
	KNX			
to KNX		IN770AIR00*0000	16 I.U. (S) & 64 I.U. (M)	T.
	KNX			
	KNX		1 I.U. with Binary Inputs	_
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P.	to KNX	INKNXUNI0011000	1 I.U. with Binary Inputs	
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Universal IR air conditioner to KNX

INKNXUNI0011000

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.
- 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

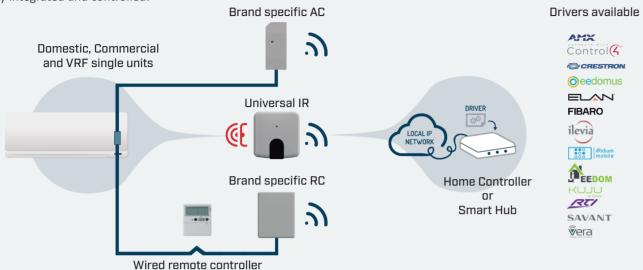
Modbus RTU

BMS

BOSCH		Modbus	Order Code	Indoor Units	
Commercial and VR	PF systems	to Modbus RTU	INMBSACA***I000	1, 4, 8 & 32 I.U.	
DAIKIN		M odbus			
AC Domestic units VRV and Sky syster			INMBSDAI0011000 INMBSDAI001R000	1 I.U. 1 I.U.	
FUjitsu		Modbus			
RAC and VRF system	ms to Mo	dbus RTU	INMBSFGL001R000	1 I.U. (to remote controller)	
VRF systems to Mo	odbus TCP	P/RTU	IN485FGL001I000 INMBSFGL016O000	1 I.U. (to CN connector) 16 I.U.	NEW
Hisense		Modbus			
VRF systems to Mo VRF systems to Mo			INMBSHIS001R000 IN770AIR00*0000	1 I.U. 16 I.U. (S) & 64 I.U. (M)	7.
HITACHI		Modbus			
Commercial and V VRF systems to Mo			INMBSHIT001R000 IN770AIR00*O000	1 I.U. 16 I.U. (S) & 64 I.U. (M)	2
🕒 LG		Modbus			
VRF systems to Mo	odbus RTL	J	INMBSLGE001R000	1 I.U.	
Midea		Modbus			
Commercial and VR	RF systems	to Modbus RTU	IN770AIR00*0000	16 I.U. (S) & 64 I.U. (M)	7. Perty
		Modbus			
Domestic, Mr. Slim City Multi systems		Multi lines to Modbus RTU us TCP/RTU	INMBSMIT0011000 IN770AIR00*0000	1 I.U. 50 Groups (S) & 100 Groups (M)	7
		Modbus			
FD and VRF system VRF systems to Mo			INMBSMHI001R000 IN776MHI00*0000	1 I.U. 16 I.U. (S), 64 I.U. (M) & 128 I.U. (L)	7. 201
Panasonic		Modbus			
	ems to M irea H) to Ci system	odbus RTU	INMBSPAN0011100 INMBSPAN001R000 INMBSPAN001A000 IN770AIR00*0000 IN771AIR00L0000	1 I.U. 1 I.U. 1 I.U. 16 I.U. (S) & 64 I.U. (M) 128 I.U. (L)	
SAMSUNG		n dbus			
NASA units to Moa NASA VRF systems NON-NASA units to	to Modb		INMBSSAM001R100 IN770AIR00*0000 INMBSSAM001R000	1 I.U. 16 I.U. (S) & 64 I.U. (M) 1 I.U.	2
TOSHIBA		Modbus			
VRF and Digital sys	stems to I	Modbus RTU	INMBSTOS001R000	1 I.U.	
UNIVERSAL		M odbus			
Universal IR air cor	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.



(optional)

Specific features for one-to-one solutions

- Wi-Fi configuration supporting both dynamic or static IPs.
- 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.

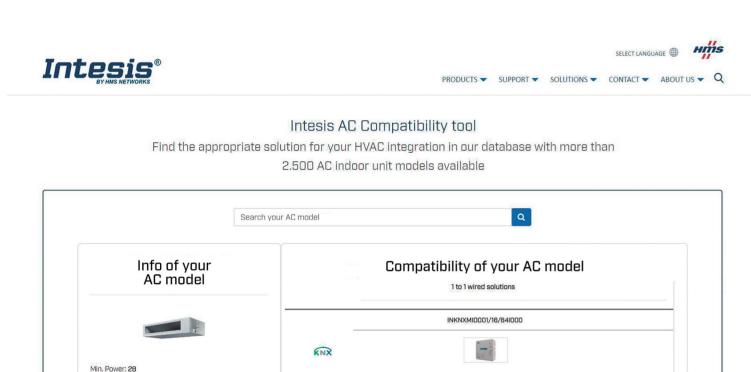
Specific features for multi-unit solutions

- 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.



DAIKIN		ය. Home Automation	Order Code	Indoor Units	
AC Domestic units to Home Automation VRV and Sky systems to Home Automation			INWMPDAI0011000 INWMPDAI001R000	1 I.U. 1 I.U.	
FUjitsu		쇼. Home Automation			
RAC and VRF syster	ms to Hoi	me Automation	INWMPFGL001R000	1 I.U. (to remote controller)	
VRF systems to Home Automation			INWMPFGL001I000 INMBSFGL016O000	1 I.U. (to CN connector) 16 I.U.	
Hisense		ය. Home Automation			
VRF systems to Hor	ne Autor		IN770AIR00*0000	16 I.U. (S) & 64 I.U. (M)	Zerle [®]
HITACHI		Automation			
VRF systems to Hor	ne Autor	nation	IN770AIR00*0000	16 I.U. (S) & 64 I.U. (M)	7. A
🔁 LG		ය. Home Automation			
VRF systems to Hor	ne Autor	nation	INWMPLGE001R000	1 I.U.	
		ය. Home Automation			
Commercial & VRF	systems	to Home Automation	IN770AIR00*0000	16 I.U. (S) & 64 I.U. (M)	7.
		ය. Home Automation			
Domestic, Mr.Slim and City Multi to Home Automation City Multi systems to Home Automation		INWMPMIT0011000 IN770AIR00*0000	1 I.U. 50 Groups (S) & 100 Groups (M)	7	
		合. Home Automation			
FD and VRF system			INWMPMHI001R000	1 I.U.	
Domestic units to H VRF systems to Hor			INWMPMHI0011000 IN776MHI00*0000	1 I.U. 16 I.U. (S), 64 I.U. (M) & 128 I.U. (L)	Perties
Panasonic		습. Home Automation			
Etherea AC units to			INWMPPAN001I000	1 I.U.	
	ems to Ho	ome Automation		11.0.	
,	Ci custam	c to Homo Automation		16 (\$) 9. 67 (\M)	2
ECOi, ECOg and PA		s to Home Automation s to Home Automation	IN770AIR00*0000 IN771AIR00L0000	16 I.U. (S) & 64 I.U. (M) 128 I.U. (L)	7.00
ECOi, ECOg and PAG ECOi, ECOg and PAG					
ECOi, ECOg and PAG ECOi, ECOg and PAG SAMSUNG	Ci system	s to Home Automation			
ECOi, ECOg and PAG ECOi, ECOg and PAG SAMSUNG NASA VRF systems	Ci system	s to Home Automation	IN771AIR00LO000	128 I.U. (L)	_
ECOi, ECOg and PA	Ci system	s to Home Automation C. Home Automation Automation C. Home Automation	IN771AIR00LO000	128 I.U. (L)	_
ECOi, ECOg and PAG ECOi, ECOg and PAG SAMSUNG NASA VRF systems TOSHIBA	Ci system	s to Home Automation C. Home Automation Automation C. Home Automation	IN771AIR00LO000 IN770AIR00*O000	128 I.U. (L) 16 I.U. (S) & 64 I.U. (M)	_

More than 2.500 compatible indoor unit models



AC Compatibility Tool

Max. Power: 71

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.

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



Intesis helps you to reduce your carbon footprint

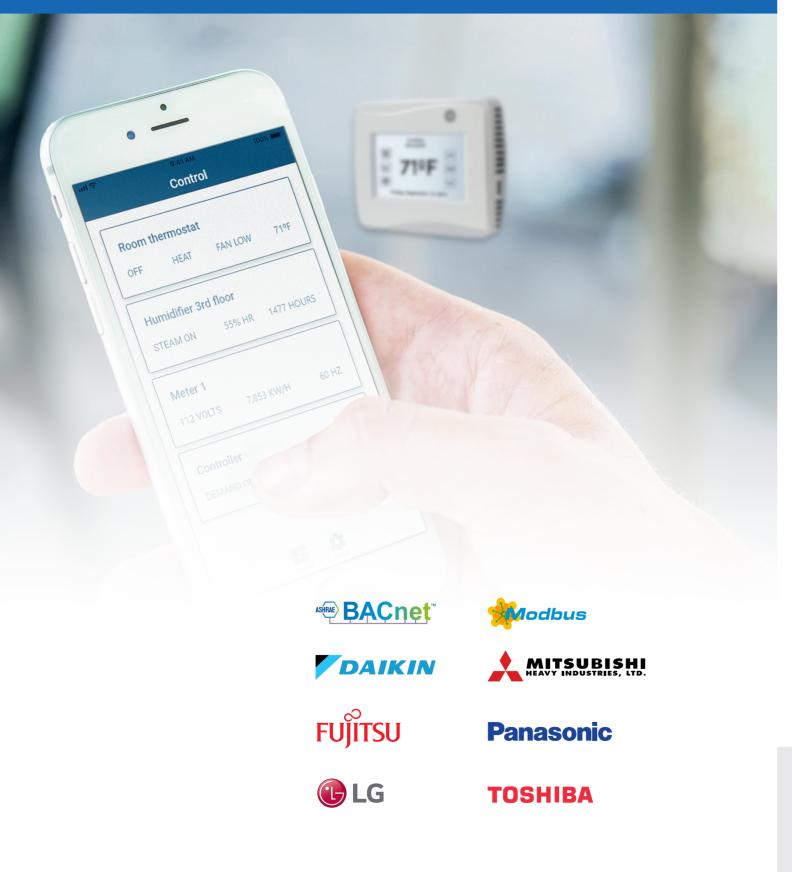
Intesis is committed to reduce the CO₂ emission of air conditioning units by offering the best integration product

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.



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

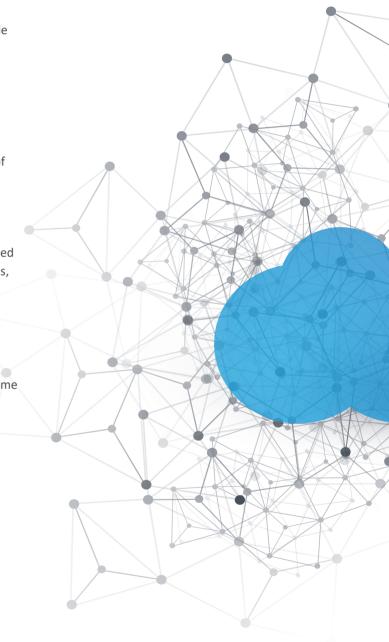
Grant access for other users and set permissions based on individual needs.



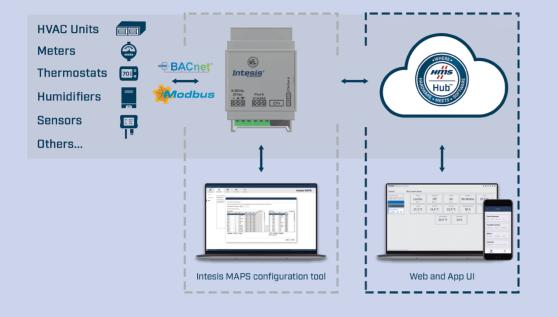
Quick installation

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.

	Blue screen device				
Green screen device Heat 19.5 °C 21.0 °C	Coupercy LocOcc	System Mode Off ••••	Fan Mode On	No Motion	Occ Heat
Bive screen device LocOcc Off Off	ecc Cost 21.5 °C - +	Unocc Heat 16.0 °C - +	иносс Соок 22.5 °С - +	Dehumidification Setpoint 50 % - +	Fin: C Devices
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					Humidifier 3rd floor STEAM ON 58% HR 1477 HOU
					Meter 1 112 VOLTS 7,853 KM/H 00 H2
					Controller DEMAND ON 118 PA 22°C QUT1
Capity I View Office SLU 2017/14 et also	servita				Bi Contract

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.

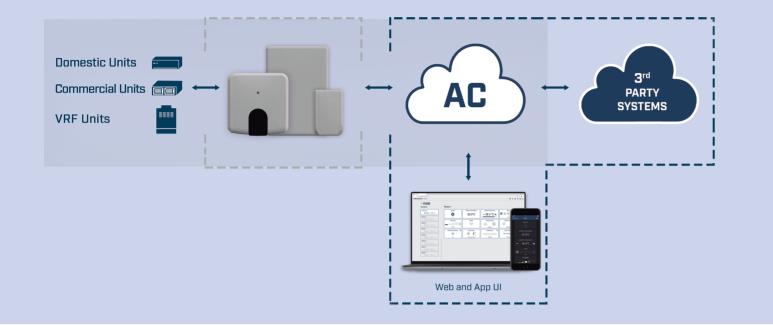
Device sharing and user permissions management.

Multiple site management from a common dashboard.

Device Versions

4, 8, 16 & 32 D.V.

Intesis AC Cloud Control



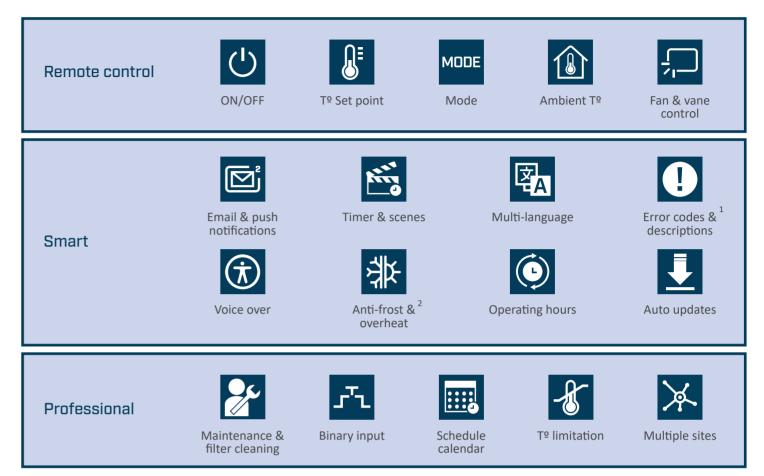
AC Cloud Control is an HVAC IoT solution that allows comfortable and intuitive control of air conditioners and heat pumps from a smartphone, tablet, smart watch or from a simple internet browser.

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



1: not available for the Universal IR gateway 2: only available for the Universal IR gateway

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.

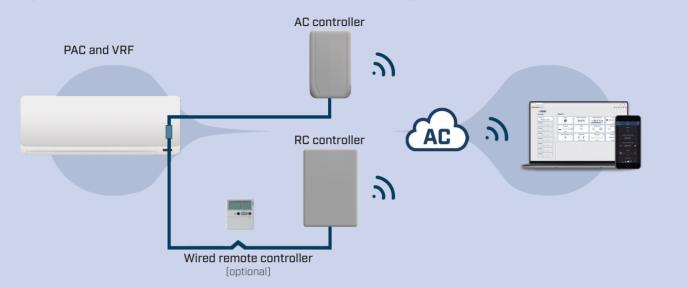


OEM projects

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.
- 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 to Wi-Fi (ASCII) VRV and Sky systems to Wi-Fi (ASCII)			INWFIDAI0011100 INWFIDAI001R100	1 I.U. 1 I.U.	NEW
FUjitsu		AC Cloud Control			
RAC and VRF syste	ems to V	/i-Fi (ASCII)	INWFIFGL0011100 INWFIFGL001R100	1 I.U. 1 I.U.	NEW
🕑 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) Domestic units to Wi-Fi (ASCII)			INWFIMHI001I100 INWFIMHI001R100	1 I.U. 1 I.U.	NEW
Panasonic		AC Cloud Control			
Etherea AC units to Wi-Fi (ASCII) ECOi and PACi systems to Wi-Fi (ASCII)			INWFIPAN0011100 INWFIPAN001R100	1 I.U. 1 I.U.	NEW
TOSHIBA		AC Cloud Control			
VRF and Digital sy	stems to	o Wi-Fi (ASCII)	INWFITOS001R100	1 I.U.	
UNIVERSAL		AC Cloud Control			

Universal IR air conditioner to Wi-Fi (ASCII)

INWFIUNI0011000

PAC, RAC and VRF

Universal IR

@E

38

1 I.U. with Binary Inputs



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HMS Networks - Contact

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www.hms-networks.com/contact



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