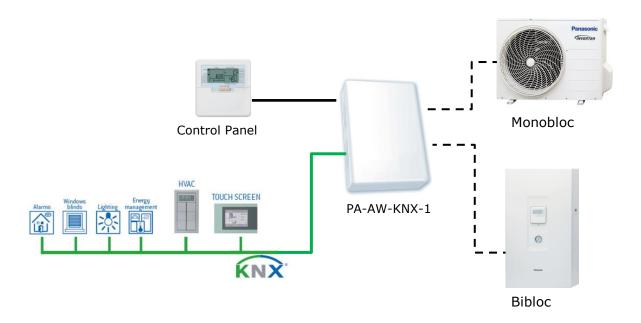




KNX Interface for PANASONIC Air-to-Water Systems (Aquarea Line)



IntesisBox® PA-AW-KNX-1i allows monitoring and control, fully bi-directionally, functioning parameters of PANASONIC Air Conditioners from KNX installations. Compatible with all the models of the Aquarea line commercialised by PANASONIC.

Simple installation. It connects one side directly to the electronic circuit of the AW system and to the remote controller. On the other side, it connects directly to the KNX TP-1 (EIB) bus.

Great flexibility of integration into your KNX projects. Configuration is made directly from ETS, the database of the device comes with a complete set of communication objects allowing, from a simple and quick integration using the basic objects, to the most advanced integration with monitoring and control all the AC unit's parameters. Also available specific device's communication objects.

IntesisBox® PA-AW-KNX-1 will allow you offering a full integration of the air to water system in your KNX projects at a very affordable cost.

1. Communication objects

The ETS database of the device comes with multiple communication objects allowing great flexibility of integration.



2. Parameters

Different parameters can be configured to ensure the maximum flexibility for the integration, not only in functionality of the device but in visibility of objects in ETS for a more comfortable integrator's work.



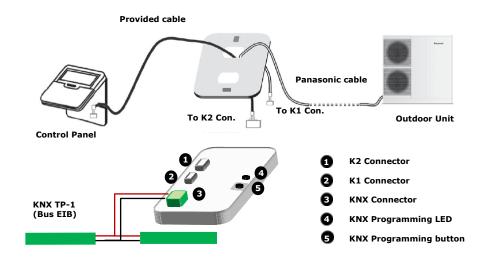
http://www.intesis.com

3. Connections

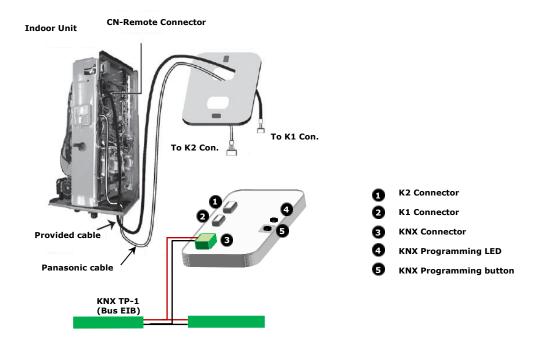
Connection of the interface to the Aquarea system may vary depending on the different available models. Below you will find a sketch for the Monobloc system and after that an example for the Bibloc system.

Connection of the interface to the KNX bus is by means of the standard KNX bus connector also supplied with the interface.

Connections diagram for Aquarea Monobloc systems:



Connections diagram for Aquarea Bibloc systems:



4. AC Unit Types compatibility.

A list of Panasonic indoor unit model references compatible with PA-AC-KNX-1i and their available features can be found in:

http://www.intesis.com/pdf/IntesisBox PA-AW-xxx-1 AW Compatibility.pdf

5. Technical Specifications

Enclosure	ABS (UL 94 HB) de 2,5 mm thick
Dimensions	100 X 70 X 28 mm
Weight	70g
Color	Ivory White
Power supply	Power is supplied by: 1 Aquarea bus 2 KNX bus (29V DC, 6mA)
Terminal wiring (for power supply and low-voltage signals)	Per terminal: solid wires or stranded wires (twisted or with ferrule) 1 core: 0.5mm2 2.5mm2 2 cores: 0.5mm2 1.5mm2 3 cores: not permitted
KNX port	1 x KNX TP1 (EIB) port opto-isolated. Plug-in terminal block (2 poles). TNV-1
AW connection	K1 (Aquarea unit) (4 x 0.22 - Shielded) K2 (Remote controller) (4 x 0.22 - Shielded)
LED indicators	1 x KNX programming.
Push buttons	1 x KNX programming.
Configuration	Configuration with ETS.
Op. Temperature	From 0°C to 40°C
Storage Temperature	From 0°C to 40°C
Operating Humidity	25-90% at 50°C, non-condensing
RoHS conformity	Compliant with RoHS directive (2002/95/CE).
Certifications	CE conformity to EMC directive (2004/108/EC) and Low-voltage directive (2006/95/EC) EN 61000-6-2; EN 61000-6-3; EN 60950-1; EN 50491-3; EN 50090-2-2; EN 50428; EN 60669-1; EN 60669-2-1;

