

Specifications Document for INKNXPAN001A000

Product type: The INKNXPAN001A000 is a KNX gateway compatible with Panasonic air-to-water (Aquarea H/J) air conditioning systems.

Manufacturer: HMS Industrial Networks SLU.

Product description: Connect this gateway directly to a Panasonic AW unit to control main functions, such as operating mode, fan speed, temperature setpoint..., and to monitor errors, alarms, and some internal variables. The gateway is very easy to configure using the ETS configuration tool and the ETS Database available to download from the Intesis website.

Installation: Inside the AW unit.

Main features:

- Configuration using the KNX standard configuration tool ETS.
- Direct connection to the AW system.
- External power not required.
- Multiple control and status objects (bit, byte, characters...) with standard KNX datapoints.
- One status object available for each control object.
- Total supervision and control of the Panasonic AW unit from KNX, including the unit's internal variables, special modes, error alarms, and error codes.
- Significant reduction of the HVAC system energy consumption.
- Reduced dimensions: 59 x 36 x 21 mm / 2.3 x 1.4 x 0.8".
- Three-year warranty.

Equipment and accessories: Intesis gateway, installation sheet, and AW unit connection cable.

Standards, guidelines, and certificates:

- KNX certificate.
- CE conformity to EMC directive (2014/30/EC) and Low-voltage directive (2014/35/EC).
- EN 61000-6-3, EN 61000-6-1, EN 60950-1, EN 60335-2, EN 60335-1, EN 62233, EN 50491-3, EN 50491-2.
- Compliant with RoHS 2 directive (2011/65/EU).

Technical specifications:

Enclosure	Plastic, type ABS (UL 94 HB). 2.5 mm / 0.1" thickness
Dimensions	59 x 36 x 21 mm / 2.3 x 1.4 x 0.8"
Weight	70 g / 2.5 oz
Color	Ivory white
Power supply	Supplied through the KNX bus (29 VDC, 6 mA) and Aquarea bus
Terminal Wiring (For low-voltage signals)	Per terminal: solid wires or stranded wires (twisted or with ferrule) One core: 0.2 .. 2.5 mm ² (24 .. 11 AWG) Two cores: 0.2 .. 1.5 mm ² (24 .. 15 AWG) Three cores: Not permitted
KNX port	1 x Opto-isolated pluggable terminal block (2 poles). TNV-1
LED indicators	1 x Operational status
Hydro unit port	1 x Specific connector. Specific cable included
Configuration	Configuration with ETS
Operating temperature	0°C .. 60°C
Storage temperature	-20°C .. 85°C
Operational Humidity	<90% RH, non-condensing
Storage Humidity	<90% RH, non-condensing
Isolation voltage	1500 VDC
Isolation resistance	1000 MΩ