

# Intesis INMBSPAN001A100 Tender Document

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**Product type:** The INMBSPAN001A100 is a Modbus RTU gateway compatible with Panasonic Aquarea air-to-water heat pump systems (H/J/K/L/M series).

**Manufacturer:** HMS Industrial Networks SLU.

**Product description:** Connect this gateway directly to the Aquarea unit to monitor and control its main functions for DHW and climate. The gateway also implements 120+ specific communication signals for cascade control. The gateway configuration is very easy: just set the DIP switches according to your needs. No configuration software or power supply is required.

**Installation:** DIN rail or wall.

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

**Standards, guidelines, and certificates:**

- UL certificate.
- EC conformity to EMC directive (2014/30/EC); EN 61000-6-3: 2007 + A1: 2011, EN 61000-6-1: 2007.
- EC conformity to low-voltage directive (2014/35/EC); EN 62368-1: 2014 / A11: 2017.
- Compliant with RoHS 2 directive (2011/65/EU).

**Main features:**

- Compatible with Panasonic Aquarea H/J/K/L/M series.
- Specific signals for cascade control.
- Configuration with onboard DIP switches.
- Quick and easy installation: Set the DIP switches, plug, and play.
- Built-in 120 Ω termination resistor configurable via DIP switches.
- External power supply not required.
- Reduced dimensions (HxWxD): 93 x 53 x 58 mm / 3.7 x 2.1 x 2.3”.
- Mountable on DIN rail or wall.
- Compatibility with the principal Aquarea system features, including simultaneous control of domestic hot water (DHW) and two climate zones.
- More than 170 communication signals implemented by default that ensure monitoring and control over the main functions of the Aquarea unit.
- Significant reduction of the HVAC system energy consumption.
- Three-year warranty.



**Technical specifications:**

<b>Housing</b>	Plastic, type PC (UL 94 V-0); Color: Light grey. RAL 7035 Net dimensions (DxWxH): 93 x 53 x 58 mm / 3.7 x 2.1 x 2.3” Protection: IP20
<b>Weight</b>	85 g / 3 oz
<b>Terminal wiring</b>	Use solid wires or stranded wires (twisted or with ferrule). Wire cross-section/gauge per terminal: One core: 0.2 .. 2.5 mm <sup>2</sup> (24 .. 11 AWG) Two cores: 0.2 .. 1.5mm <sup>2</sup> (24 ,, 15 AWG) Three cores: Not permitted
<b>Mounting</b>	DIN rail or wall
<b>Modbus RTU port</b>	1 x EIA-485 pluggable terminal block (3 poles: B, A, and SG)
<b>AC unit port</b>	1 x Specific socket
<b>LED indicators</b>	1 x Multicolor LED (operational status)
<b>DIP switches</b>	3 x DIP switches for baudrate configuration, Modbus addressing, temperature units, and termination resistor activation
<b>Consumption</b>	12 VDC, 60 mA
<b>Operational and storage temperature</b>	OP: 0 .. 60°C / 32 .. 140°F; ST: -20 .. 85°C / -4 .. 185°F
<b>Operational and storage humidity</b>	5 .. 95% RH. No condensation
<b>Isolation between comm. ports</b>	1000 VDC