

Intesis IN485DAI001A000 Prescription Document

Document version: 1.0.0

Product type: The IN485DAI001A000 is a BACnet MS/TP and Modbus RTU gateway compatible with Daikin Altherma 3 air-to-water heat pump systems.

Manufacturer: HMS Industrial Networks SLU.

Product description: Connect this gateway directly to the Altherma 3 unit to monitor and control its main functions, such as error monitoring, running hours counter, temperature limits for DHW and climate, monitoring of compressor and circulation pump operation, and many more. 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 and installation guide.

Standards, guidelines, and certificates:

- BTL and UL certificate.
- CE conformity to low-voltage directive (2014/35/EC) and RED directive (2014/53/EU).
- EN 62368-1:2014/A11:2017, EN 55032:2015 + AC:2016 + A11:2020 + A1:2020, EN 55035:2017 + A11:2020 + AC:2019-11, ETSI EN 301 489-17 V3.2.4, and ETSI EN 301 489-1V2.2.3 in conjunction with ETSI EN 303 446-1 V1.2.1,
- Compliant with RoHS 2 directive (2011/65/EU).

Main features:

- BTL mark ensures full interoperability with BACnet devices.
- Supports BACnet MS/TP and Modbus RTU.
- Configuration with onboard DIP switches.
- Quick and easy installation: Set the DIP switches, plug, and play.
- Built-in 120 Ω termination resistor. Bus termination and polarization configurable via DIP switches.
- External power supply not required.
- Simultaneous control of the Altherma 3 unit via both the remote controller and the BMS (BACnet MS/TP or Modbus RTU).
- Reduced dimensions (HxWxD): 93 x 53 x 58 mm / 3.7 x 2.1 x 2.3".
- Compatibility with the principal Altherma 3 system features, including simultaneous control of domestic hot water (DHW), a zone, and a room.
- More than 100 communication signals implemented by default that ensure monitoring and control over the main functions of the Altherma 3 unit.
- Significant reduction of the HVAC system energy consumption.
- Three-year warranty.



Technical specifications:

Housing	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"
Weight	85 g / 3 oz
Terminal wiring	Use solid wires or stranded wires (twisted or with ferrule). Wire cross-section/gauge per terminal: One core: 0.2 .. 2.5 mm ² (24 .. 11 AWG) Two cores: 0.2 .. 1.5mm ² (24 ,, 15 AWG) Three cores: Not permitted
Mounting	DIN rail or wall
BACnet MS/TP port	1 x EIA-485 pluggable terminal block (3 poles: B, A, and SG)
AC unit port	1 x Specific socket
LED indicators	2 x Communication status
DIP switches	SW1: Gateway and baudrate configuration SW2: BACnet/Modbus address and temperature unit SW3: Bus polarization and termination
Operational and storage temperature	OP: 0 .. 70°C / 32 .. 158°F; ST: -20 .. 85°C / -4 .. 185°F
Operational and storage humidity	5 .. 95% RH, non-condensing
Isolation between comm. ports	1000 VDC