IntesisBox®
MD-AC-KNX-1B/16/64

Interface KNX for Midea Air Conditioners
(VRF Line)

AC Indoor Unit

Internal electronic control board

KNX TP-1 (EIB) bus

Connection to EXY bus. Three wires cable.

Max. 500 m

IntesisBox® MD-AC-KNX-1B/16/64 allows monitoring and control, fully bi-directionally, of all the functioning parameters of Midea Air Conditioners from KNX installations.

Simple installation. Can be installed inside the own AC indoor unit, it connects directly in one side to the electronic circuit of the AC indoor unit (cable supplied) and in the other side 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, as for example save and execute scenes.

Allows the use of a KNX temperature sensor for the air conditioning control.

IntesisBox® MD-AC-KNX-1B/16/64 will allow you offering a full integration of the air conditioning in your KNX projects at a very affordable cost.

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1. Communication objects

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


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1.1.1 MD-AC-KNX
1: AC01 Control_ On/Off [DPT_1.001] - 0-Off;1-On
2: AC01 Control_ Operating Mode [DPT_20.102] - 0-Aut;1-Com;2-Stan;3-Eco;4-Pro
3: AC01 Control_ Mode [DPT_20.105] - 0-Aut;1-Hea;3-Coo;9-Fan;14-Dry
4: AC01 Control_ Mode Cool/Heat [DPT_1.100] - 0-Cool;1-Heat
10: AC01 Control_ Mode +/- [DPT_1.007] - 0-Dec.;1-Inc.
11: AC01 Control_ Fan Speed [DPT_5.001] - Thresholds: 75% || 50% and 83%
17: AC01 Control_ Vanes U-D Swing [DPT_1.002] - 0-Stop;1-Swing
18: AC01 Control_ Setpoint Temperature [DPT_9.001] - ºC
22: AC01 Status_ On/Off [DPT_1.001] - 0-Off;1-On
23: AC01 Status_ Operating Mode [DPT_20.102] - 0-Aut;1-Com;2-Stan;3-Eco;4-Pro
24: AC01 Status_ Mode [DPT_20.105] - 0-Aut;1-Hea;3-Coo;9-Fan;14-Dry
25: AC01 Status_ Mode Cool/Heat [DPT_1.100] - 0-Cool;1-Heat
32: AC01 Status_ Fan Speed [DPT_5.001] - 50% and 100% || 33%, 66% and 100%
38: AC01 Status_ Vanes U-D Swing [DPT_1.002] - 0-Stop;1-Swing
40: AC01 Status_ AC Setpoint Temperature [DPT_9.001] - ºC
41: AC01 Status_ AC Ambient Reference Temperature [DPT_9.001] - ºC
42: AC01 Status_ Error/Alarm [DPT_1.005] - 0-No alarm;1-Alarm
43: AC01 Status_ Error Code [2-byte signed value] - Error Code
44: AC01 Status_ Error Text [DPT_16.001] - Error Text
```

2. Parameters

Multiple 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.

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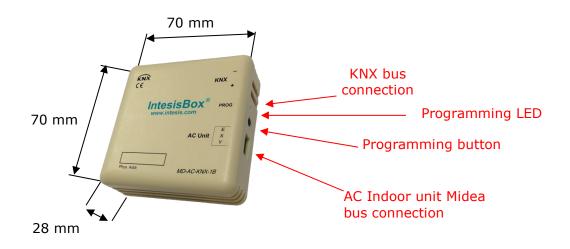Email info@intesis.com
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3. AC Unit Type compatibility list.

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

http://www.intesis.com/pdf/IntesisBox_MD-AC-xxx-MIU_AC_Compatibility.pdf

4. Technical Specifications

Envelope	ABS (UL 94 HB). 2,5 mm thickness
Dimensions	59 x 36 x 21 mm
Weight	42g
Color	Light grey
Power supply	29V DC, 7mA Supplied through KNX bus.
LED indicators	1 x KNX programming/bus.
Push buttons	1 x KNX programming.
Configuration	Configuration with ETS.
Operating Temperature	From 0ºC to 40ºC
Storage Temperature	From -40ºC to 85ºC
Isolation Voltage	4000V
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

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