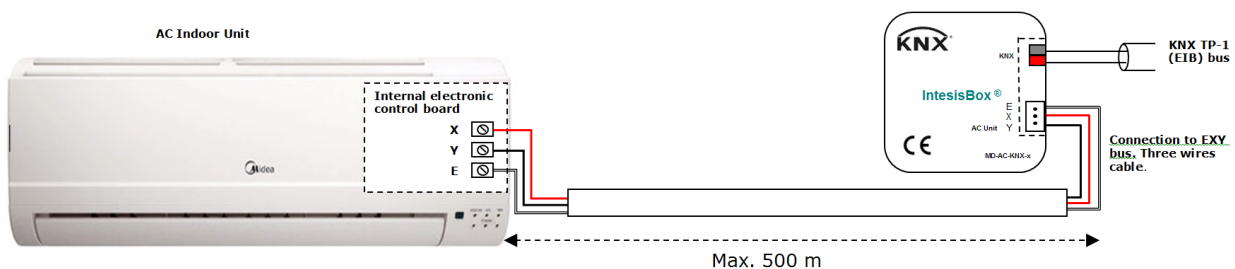




# IntesisBox®

## MD-AC-KNX-1B/16/64

### Interface KNX for Midea Air Conditioners (VRF Line)



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.

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.

## 1. Communication objects

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

- 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] - °C
  - 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] - °C
  - 41: AC01 Status\_AC Ambient Reference Temperature [DPT\_9.001] - °C
  - 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.

Device: 1.1.1 MD-AC-KNX

<ul style="list-style-type: none"> <li>General configuration</li> <li>AC supported features</li> <li>Global Mode configuration</li> <li>Global Fan Speed configuration</li> <li>Global Vanes U-D configuration</li> <li>Global Temperature configuration</li> <li>Remote Lock Configuration</li> <li>Addressing of Indoor Units</li> <li>License</li> </ul>	<p>Download latest database entry for this product and its User Manual from: <input type="text" value="http://www.intesis.com"/></p> <p>Intesis Product: <input type="text" value="MD-AC-KNX-1B"/></p> <p>Number of Indoor Units in ETS: <input type="text" value="1"/></p> <p>First Status Update to KNX: <input type="text" value="ASAP"/></p> <p>Enable object "Error Code [2byte]": <input type="text" value="Enabled"/></p> <p>Enable object "Error Text [14byte]" (2 ASCII-char Error Code): <input type="text" value="Enabled"/></p>
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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](http://www.intesis.com/pdf/IntesisBox_MD-AC-xxx-MIU_AC_Compatibility.pdf)

### 4. Technical Specifications

<b>Envelope</b>	ABS (UL 94 HB). 2,5 mm thickness
<b>Dimensions</b>	59 x 36 x 21 mm
<b>Weight</b>	42g
<b>Color</b>	Light grey
<b>Power supply</b>	29V DC, 7mA Supplied through KNX bus.
<b>LED indicators</b>	1 x KNX programming/bus.
<b>Push buttons</b>	1 x KNX programming.
<b>Configuration</b>	Configuration with ETS.
<b>Operating Temperature</b>	From 0°C to 40°C
<b>Storage Temperature</b>	From -40°C to 85°C
<b>Isolation Voltage</b>	4000V
<b>RoHS conformity</b>	Compliant with RoHS directive (2002/95/CE).
<b>Certifications</b>	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

