

Hitachi - Yutaki

IntesisBox<sup>®</sup> HI-AW-KNX-1 allows fully bidirectional monitoring and control of the Hitachi Air-to-Water systems from KNX installations. The interface is compatible with all the models of the Yutaki line commercialised by Hitachi.

**Simple installation.** The interface can be installed inside the AW indoor unit itself. It connects one side directly to the H-Link of the Hitachi AW unit and in the other side directly 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 AW unit's parameters. Also available specific device's communication objects as for example save and execute scenes.

IntesisBox<sup>®</sup> HI-AW-KNX-1 allows you a full integration of the Air-to-Water system 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.

▲ • .... HI AW Interface ■20: Control\_ Unit Run/Stop [DPT\_1.010] - 0-Stop;1-Run ■↓ 1: Control\_ Unit Mode [DPT\_ 1.100] - 0-Cool;1-Heat 2: Control\_ C1 Run/Stop [DPT\_1.010] - 0-Stop;1-Run ■2 10: Control\_ C1 Thermo Setpoint [DPT\_9.001] - °C ■2 11: Control\_ C1 Ambient Temp [DPT\_9.001] - °C ■↓ 30: Control\_ AntiLeg Run/Stop [DPT\_1.010] - 0-Stop;1-Run ■2 31: Control\_ AntiLeg Setpoint [DPT\_9.001] - °C ■2 32: Control\_ KNX Blocks/Enables Menu [DPT\_1.003] - 0-Enable;1-Block ■2 33: Control\_ KNX Alarm Bit [DPT\_1.005] - 0-No alarm;1-Alarm ■2 34: Status\_ Unit Mode [DPT\_1.100] - 0-Cool;1-Heat 35: Status\_ C1 Run/Stop [DPT\_1.010] - 0-Stop;1-Run ■2 43: Status\_ C1 Thermo Setpoint [DPT\_9.001] - °C 45: Status\_ C1 Ambient Temp [DPT\_9.001] - °C ■2 69: Status\_ AntiLeg Run/Stop [DPT\_1.010] - 0-Stop;1-Run 70: Status\_ AntiLeg Setpoint [DPT\_9.001] - °C ■2 71: Status\_ KNX Blocks/Enables Menu [DPT\_1.003] - 0-Enable;1-Block ■2 72: Status\_ KNX Alarm Bit [DPT\_1.005] - 0-No alarm;1-Alarm ■2 73: Status\_ Error/Alarm [DPT\_1.005] - 0-No alarm;1-Alarm ■2 74: Status\_ Error Code [2byte] - 0-No error/Any other see man.

### 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: HI AW Interface		
Settings	Download latest database entry for this product and its User Manual from:	http://www.intesis.com
	System working mode:	Full
	2nd circuit (C2) is available	No
	DHW is available (Domestic Hot Water)	No
	Swimming pool is available	No
	Enable use of extra information objects (for status)	No

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## 3. Connections

Connection of the interface to the AW indoor unit is by means of the cable supplied with the indoor unit to connect the remote controller. It must be connected to the interface in one side (connector H-Link) and to the internal electronic board of the Air-to-Water indoor unit in the other side.

Connection of the interface to the KNX bus is by means of the standard KNX bus connector also supplied with the interface.

In order to plug the interface to the external power supply, two different methods are available. First one is using the external power supply provided with the interface using the DC JACK connector

### Connections diagram:



### 4. AC Unit Types compatibility.

A list of Hitachi unit model references compatible with HI-AW-KNX-1 and their available features can be found in:

http://www.intesis.com/pdf/IntesisBox HI-AW-xxx-1 AC Compatibility.pdf

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# **5. Technical Specifications**

Enclosure	ABS (UL 94 HB) de 2,5 mm thick		
Dimensions	70 X 70 X 28 mm		
Weight	70g		
Color	Ivory White		
Power supply	29V DC, 6mA (KNX bus)		
External Power Supply	10-40V DC, 100mA		
	(Recommended: 12V DC, 100 mA)		
	Must use a NEC Class 2 or Limited Power Source (LPS) and SELV rated		
	power supply.		
	Plug-in terminal block for power connection (2 poles).		
Terminal wiring (for power supply and low-voltage signals)	Per terminal: solid wires or stranded wires (twisted or with ferrule)		
	1 core: 0.5mm2 2.5mm2		
	2 cores: 0.5mm2 1.5mm2		
	3 cores: not permitted		
KNX port	1 x KNX TP1 (EIB) port opto-isolated. Plug-in terminal block (2 poles). TNV-		
	1		
H-Link port	Plug-in terminal block for H-Link bus connection (2 poles) with no polarity.		
LED indicators	1 x KNX programming.		
Push buttons	1 x KNX programming.		
Configuration	Configuration with ETS.		
Operating	From 0°C to 40°C		
Storage Temperature			
Operating Humidity	25-90% at 50°C, non condensing		
Isolation voltage	External Power Supply – KNX: 2500V		
	External Power Supply – H-Link: 1500V		
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; EN 50090-2-2;		
	EN 50428; EN 60669-1; EN 60669-2-1		

#### **External Power Supply connection**



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