



## DZK BACNET INTERFACE

The DZK BACnet Interface allows a Building Management System to control all variables of the DZK systems. The DZK BACnet Interface uses a standard open protocol based on ASHRAE Standard 135, and its objects are:

- Compatible with BACnet (ANSI /ASHRAE-135)
- Compatible with BACnet/IP (ISO16484-5)

The DZK BACnet interface board is a Plug&Play device for DZK, and it allows to control and monitor the following variables:

- Indoor Unit status.
- Fan status and Fan Speed.
- Auxiliary Heat stages status.
- Global Ventilation status.
- Operation Mode.
- On/Off for each zone.
- Set point setting for Cooling and Heating for each zone.
- Room Temperature in each zone.
- Local Fan activated/deactivated for each zone.
- Auto (Follow Schedule) activate/deactivate.
- Unoccupied Mode Status.
- Vacation Mode activate/deactivate.
- Opening Damper Status for each zone.
- Indoor Unit and DZK errors.

## DZK-BACNET-3



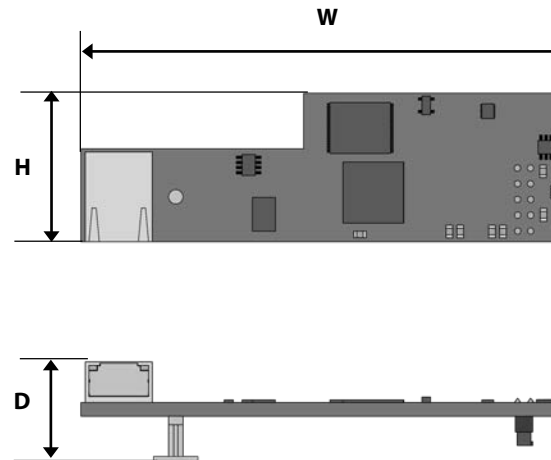
Rev. 1.00

10-2016



## TECHNICAL SPECS

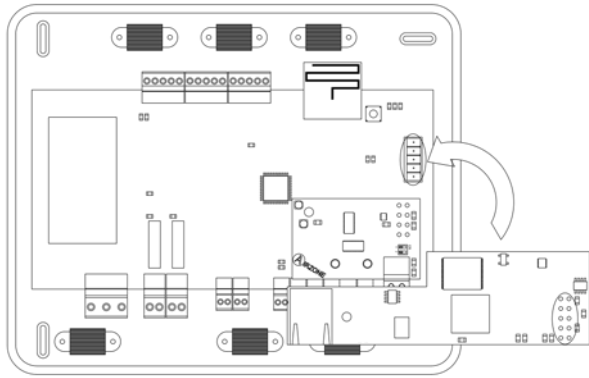
Power supply and consumption	
Type of power supply	Vac
V max	12 V supplied from Main Control Board
I max	200 mA
Stand-by consumption	1.8 W
Ethernet	
Type of cable	UTP cat 6
Standard	T568B
IP address by default	192.168.0.100
Operating temperatures	
Storage	-4 to 158°F (-20 to 70 °C)
Operation	32 to 122°F (0 to 50°C)
Operating humidity range	5 ... 90% (non-condensing)
Mechanical aspects	
Dimensions (WxHxD)	5.12x1.57x1.55 inch (130x40x39.5 mm)



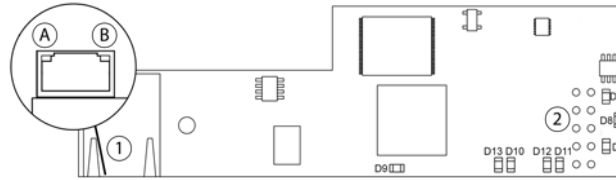


## ASSEMBLY

**Note:** Remove the sticker from the fixing post first



## DEVICE ELEMENTS

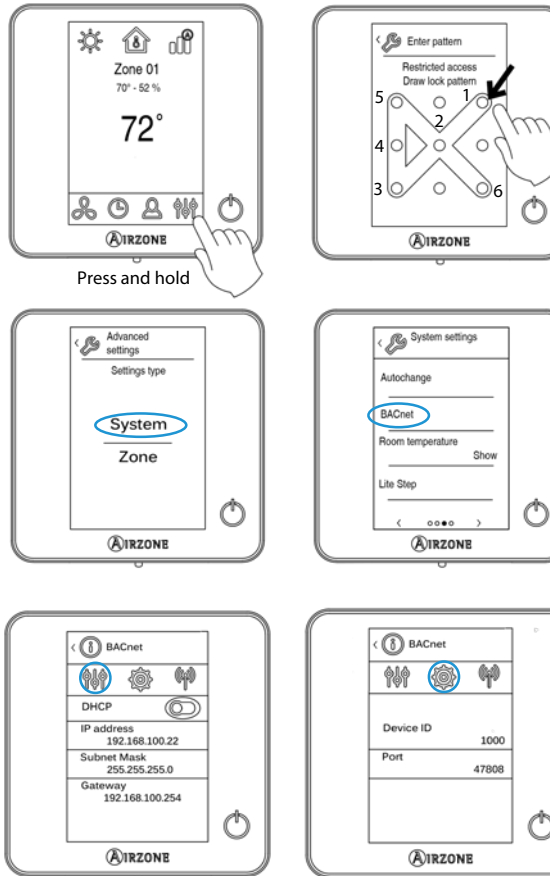


Meaning	
①	Ethernet
②	Automation bus



## CONFIGURATION

From Main Wired Thermostat, enter to Advanced settings menu:



**Note:** In case of system reset, it will return to default values.



## OBJETS LIST

Binary-input			Analog-value		
0	IU Status ON/OFF	R	0	IU Set Point	R
1	DZK system input alarm	R	1	Z1 Heat Set point	R/W
Binary-value			2	Z1 Cold Set point	R/W
0	DZK Global Fan	R	3	Z2 Heat Set point	R/W
1	DZK Aux Heat1	R	4	Z2 Cold Set point	R/W
2	DZK Aux Heat2	R	5	Z3 Heat Set point	R/W
3	Z1 ON/OFF	R/W	6	Z3 Cold Set point	R/W
4	Z1 Local Ventilation	R/W	7	Z4 Heat Set point	R/W
5	Z1 Vacation mode	R/W	8	Z4 Cold Set point	R/W
6	Z1 auto (Follow Schedule)	R/W	9	Z5 Heat Set point	R/W
7	Z1 Unoccupied	R	10	Z5 Cold Set point	R/W
8	Z2 ON/OFF	R/W	11	Z6 Heat Set point	R/W
9	Z2 Local ventilation	R/W	12	Z6 Cold Set point	R/W
10	Z2 Vacation mode	R/W	13	DZK address (DK AirNet address)	R
11	Z2 auto (Follow Schedule)	R/W	14	DZK group address (DK group address)	R
12	Z2 Unoccupied	R	15	Z1 cooling demand (%)	R
13	Z3 ON/OFF	R/W	16	Z1 heating demand (%)	R
14	Z3 Local ventilation	R/W	17	Z1 aux heating demand (%)	R
15	Z3 Vacation mode	R/W	18	Z2 cooling demand (%)	R
16	Z3 auto (Follow Schedule)	R/W	19	Z2 heating demand (%)	R
17	Z3 Unoccupied	R	20	Z2 aux heating demand (%)	R
18	Z4 ON/OFF	R/W	21	Z3 cooling demand (%)	R
19	Z4 Local ventilation	R/W	22	Z3 heating demand (%)	R
20	Z4 Vacation mode	R/W	23	Z3 aux heating demand (%)	R
21	Z4 auto (Follow Schedule)	R/W	24	Z4 cooling demand (%)	R
22	Z4 Unoccupied	R	25	Z4 heating demand (%)	R
23	Z5 ON/OFF	R/W	26	Z4 aux heating demand (%)	R
24	Z5 Local ventilation	R/W	27	Z5 cooling demand (%)	R
25	Z5 Vacation mode	R/W	28	Z5 heating demand (%)	R
26	Z5 auto (Follow Schedule)	R/W	29	Z5 aux heating demand (%)	R
27	Z5 Unoccupied	R	30	Z6 cooling demand (%)	R
28	Z6 ON/OFF	R/W	31	Z6 heating demand (%)	R
29	Z6 Local ventilation	R/W	32	Z6 aux heating demand (%)	R
30	Z6 Vacation mode	R/W	33	Z1 humidity	R
31	Z6 auto (Follow Schedule)	R/W	34	Z2 humidity	R
32	Z6 Unoccupied	R	35	Z3 humidity	R
33	DZK/BACnet board communication error	R	36	Z4 humidity	R
Analog-input			37	Z5 humidity	R
0	Z1 Room temperature	R	38	Z6 humidity	R
1	Z2 Room temperature	R	Multi-state-value		
2	Z3 Room temperature	R	0	Z1 opening step damper	R
3	Z4 Room temperature	R	1	Z2 opening step damper	R
4	Z5 Room temperature	R	2	Z3 opening step damper	R
5	Z6 Room temperature	R	3	Z4 opening step damper	R
Multi-state-input			4	Z5 opening step damper	R
0	IU speed	R	5	Z6 opening step damper	R
1	IU errors	R	Multi-state-output		
2	DZK error	R	0	DZK operation mode	R/W
Multi-state-output			1	DZK user mode	R/W

**Keep in mind:** For proper operation, DZK systems must be powered up before the indoor unit.



## STATUS LED

Meaning			
Ⓐ	Ethernet connected	Blinking	Green
Ⓑ	Ethernet activity	Blinking	Yellow
D7	Data transmission from automation	Blinking	Red
D8	Data reception from automation bus	Blinking	Green
D9	Microswitch performance	Blinking	Green
D10	Connected to the Internet	Blinking	Green
D11	Network data transmission	Blinking	Red
D12	Network data reception	Blinking	Green
D13	Configured as IP address through DHCP	On	Red
	Configured as Fixed IP address	Off	Red
D15	Power supply	Solid	Red