

# Fan-Coil controller for 2/4-pipe units with 2 individual outputs and 6 A/D inputs ZCL-HP126

## **Technical Documentation**



**Programming/test button**: short button press to set the programming mode. If this button is held while plugging the device into the KNX bus, it goes into safe mode. If this button is held more than 3 seconds, the device goes into manual mode (test mode)

LED: programming mode indicator (red). When the device goes into safe mode, it blinks (red) every half second. The manual mode is indicated by the green color. During start up (after reset or power failure) and if the device is not in safe mode, LEDs indicators blink blue for a few seconds

GENERAL SYSTEM SPECIFICATIONS								
CONCEPT			DESCRIPTION					
Type of device			Electric operation control device					
Voltage (typical)			29VDC SELV					
KNX supply	Voltage range		2131VDC					
	Maximum consumption	Voltage	mA	mW				
		29VDC (typical)	10	290				
		24VDC	12.5	300				
		Starting	25	725				
	Bus connection		Typical bus connector TP1, 0.50 mm <sup>2</sup> section					
External power supply			No					
Ambient temperature			from 0°C to +55°C					
Storage temperature			from -20°C to +70°C					
Ambient humidity			5 to 95% RH (no condensation)					
Storage humidity (relative)			5 to 95% RH (no condensation)					
Complementary characteristics			Class B					
Safety class								
Operation type			Continuous operation					
Device action type			Туре 1					
Electrical solicitations period			Long					
Type of protection			IP20, clean environment					
Assembly			Independent control assembly device to be mounted inside of electrical panels with DIN rail (EN 50022).					
KNX bus failure response			Data saving and relays action according to parameterization.					
Response when restarting KNX bus			Data recovering and output status change according to parameterization.					
Operation indication			Programming LED indicates programming mode (red) and test mode (green). Output status LED indicators reflect current output state.					
Weight			200 gr.					
PCB CTI index			175 V					
Enclosure			PC FR V0 halogen free					

### **Technical Documentation**

© Zennio Avance y Tecnología S.L.

Potential free outputs through bistable							
alays with tungstan pra-contact							
relays with tungsten pre-contact.							
Aicro-disconnection							
1 output per common							
3 outputs per common							
Possibility to connect different phases in							
adjoining outputs							
Ferminal block (screw)							
0.25 mm <sup>2</sup> to 4 mm <sup>2</sup> (26-10 AWG)							
Stranded or solid wire							
50 ms							
INDIVIDUAL OUTPUTS							
~16A (6) * 250V AC (4000 VA)							
==16A (6) * 30V DC (480W)							
4000W							
500VA							
300A/200µs or 165A/20ms							
3 million operations (60cpm)							
00.000 cycles (6cpm/resistive load)							
FAN AND VALVE OUTPUTS							
∕∕8A (4) * 250V AC (2000 VA)							
===8A (4) * 30V DC (240W)							
2000W							
1000VA							
million operations (180cpm)							
50.000 cycles (6cpm/resistive load)							

DESCRIPTION

Aprox. 3.3kΩ

and common

30 m.

0.5°C

Any combination of the next **accessories** is allowed in the inputs:

Temperature

ZN1AC-NTC68E

ZN1AC-NTC68F

ZN1AC-NTC68S

probe references: Max 10ms.

Cable screw terminal

1.5 m. (up to 30m.)

+3.3V DC for the common

1.0mA @ 3.3V DC (each input)

Dry voltage contacts between input

0.15 mm<sup>2</sup> to 2.5 mm<sup>2</sup> (26-12 AWG)

**Motion Sensor** 

C IN

\_\_\_

CI

nIIn

6





**Figure 2**: (From up to down and from left to right) Two individual outputs with different phases, two valve fan-coil and three-speed fan.

Attaching	MAXinBOX	Hospitality to	DIN	rail:
-----------	----------	----------------	-----	-------



## Removing MAXinBOX Hospitality from DIN rail:



Switch/Sensor/ Push button



(1) The micro switch number 2 in the ZN1IO-DETEC-P must be in Type B position to work properly.



CIN

SAFETY INSTRUCTIONS

INPUT SPECIFICATIONS AND CONNECTIONS

CONCEPT

Input voltage

Input current

Input impedance

Connection method

Max. cable length

NTC probe length

Cable cross-section

Response time

**Temperature Probe** 

NTC accuracy (@ 25°C)

Temperature measure precision

Switching type

Number of inputs per common

- Do not connect Main Voltage (230 VAC) or any other external voltages to any point of the BUS. Connecting an external voltage might put the entire KNX system at risk.
- Make sure during the installation that there is always sufficient insulation between the mains voltage 230VAC and the bus or the extension inputs.
- Once the device is installed, it must not be accessible from the outside.
- Keep away from water and do not cover the device with clothes, paper or any other material when in use.

#### **Technical Documentation**

© Zennio Avance y Tecnología S.L.

Edition 2

Up to two motion sensors

same device input (parallel

Motion sensor cable screw

Motion sensor references:

ZN1IO-DETEC-P<sup>(1)</sup> ZN1IO-DETEC-X

can be plugged into the

wiring)

terminal.