

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

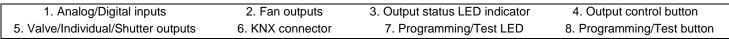
ZCL-HP126 TECHNICAL DOCUMENTATION

FEATURES

- 3 fan speed control outputs.
- 2 configurable outputs as open/close valves or a 3-point valve.*
- 2 configurable outputs as a second 3-point valve, individual outputs or a shutter channel.**
- 6 analog/digital inputs.
- Manual output operation with push button and LED status indicator.
- Logic functions.
- Output timing functionality.
- Total data saving on KNX bus failure.
- Integrated KNX BCU.
- Dimensions 67 x 90 x 79 mm (4.5 DIN units).
- DIN rail mounting (EN 50022), though pressure.
- Possibility of connecting different phases in adjoining outputs.
- Conformity with the CE directives (CE-mark on the right side).

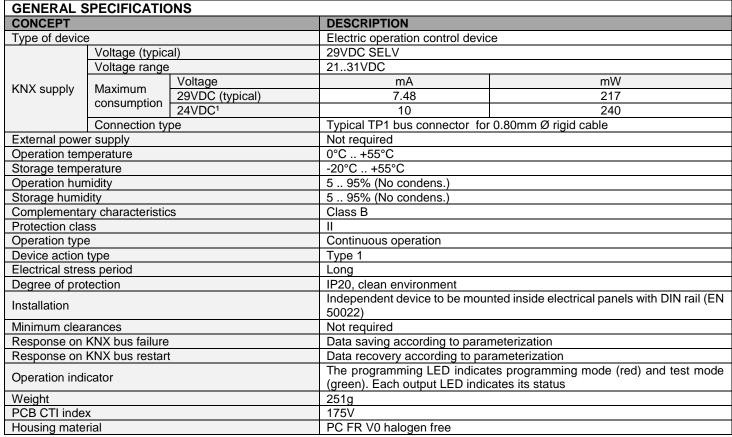


^{**} Suitable for capacitive loads, maximum 140 µF.



Programming/Test button: short press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters the safe mode. If this button is held for more than 3 seconds, the device enters the test mode.

Programming/Test LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. The manual mode is indicated by the green color. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it starts a blue blinking sequence.



¹ Maximum consumption in the worst case scenario (KNX Fan-In model)

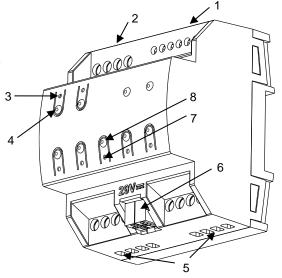


Figure 1: MAXinBOX Hospitality

OUTPUTS SPECIFICATIONS AND CONNECTIONS				
CONCEPT			DESCRIPTION	
Output type / Disconnection type		ection type	Potential-free outputs through bistable relays with tungsten precontact / Micro-disconnection	
Outputs per	Individ	dual/Valve	1	
common	Fan o	utputs	3	
Different phases connection (valve and individual outputs)			Possibility of connecting different phases in adjoining outputs	
Connection method			Screw terminal block	
Cable cross-section			1.5-4mm ² (IEC) / 26-10AWG (UL)	
F1-3/V1-2 OUTPUTS				
Rated current per output		out	AC 8(4)A @ 250VAC (2000VA) DC 5A @ 30VDC (150W)	
Maximum load per		Resistive	2000W	
output		Inductive	1000VA	
Mechanical lifetime (min. cycles)			1 000 000	
O1-2 OUTPUTS				
Rated current per output			AC 16(6)A @ 250VAC (4000VA) DC 7A @ 30VDC (210W)	
Maximum load	per	Resistive	4000W	
output		Inductive	1500VA	
Maximum inrush current			800A/200µs	
			165A/20ms	
Maximum response time			10ms	
Mechanical lifetime (min. cycles)			3 000 000	

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INPUTS SPECIFICATIONS AND CONNECTIONS				
CONCEPT	DESCRIPTION			
Number of inputs	6			
Inputs per common	6			
Operation voltage	+3.3VDC in the common			
Operation current	1mA @ 3.3VDC (per input)			
Switching type	Dry voltage contacts between input			
Switching type	and common			
Connection method	Screw terminal block			
Cable cross-section	1-2.5mm ² (IEC) / 26-12AWG (UL)			
Maximum cable length	30m			
NTC probe length	1.5m (up to 30m)			
NTC accuracy (@ 25°C)	±0.5°C			
Temperature resolution	0.1°C			
Maximum response time	10ms			

WIRING DIAGRAMS

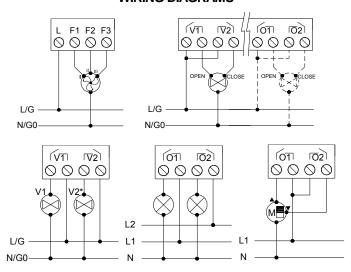


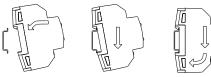
Figure 2: Wiring example (from top to bottom and left to right): Three-speed fan, 1 or 2 three-point valves**, 2 open/close valves, 2 loads connected to different phases and shutter channel.

- * In case of 2-pipe fancoil (only one open/close valve), V2 can be used as an individual output (up to 8A and not capacitive load).
- ** Depends on the application program version.

For 4-pipe fancoil, the cooling valve should always be connected at the left side and the heating valve at the right side. Before the start-up of the device it must be assured that the valve is completely closed.

 \triangle In order to ensure the expected status of the relays, please check that the device is connected to the KNX bus before energizing the power circuit.

Attaching MAXinBOX Hospitality to DIN rail:











INPUTS CONNECTION

Any combination of the next accessories is allowed on the inputs:

Switch/Sensor/ **Temperature Probe Motion Sensor Push button** Up to two motion sensors Zennio temperature can be plugged into the same device input (parallel probe. wiring) Motion sensor screw terminal. Motion sensor references: ZN1IO-DETEC-X ZN1IO-DETEC-P

^{*} The micro switch number 2 in the ZN1IO-DETEC-P must be in Type B position to work properly.



SAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at http://zennio.com/weee-regulation.

