

# Datasheet FCA100

## **EAE KNX Fan Coil Actuator**

*All you need is EAE*



### General Features



- **FCA100 has 11 outputs, 6 inputs inside. These outputs and inputs are using for:**
  - Auxiliary Output x1 (Relay 16A)
  - Fan Speed Output x3 (Relay 16A)
  - Fan Speed Output x1 (0-10 V Signal)
  - Valve Control Output x4 (Triac 0.5A)
  - Valve Control Output x2 (0-10 V Signal)
  - Dry Contact Input x4
  - NTC Sensor Input x2
- **Device has 4 independent input channels. Input channel operates as well as universal interface with following functions,**
  - Switch / push button sensor
  - Dew-point sensor
  - Window sensor
- **Device has 2 temperature input channels separately. Temperature Inputs can be used with following functions,**
  - Single
  - Weighted (Multi temp sensor)
- **Fan Coil Actuator FCA100 is designed as all in one product for different way of Fan coil and Valve control together.**
- **Fan Coil Actuator FCA100 covers HVAC systems of the electrical installation of room applications and offers following functions in one product.**
  - Controlling fan coils (2 & 3-point valve)
  - Additional Heat or Cooling
  - Switching auxiliary load
  - Dry contact inputs
  - Temperature inputs
- **Suitable for switching resistive, capacitive and inductive loads as well as fluorescent lamp loads according to EN 60 669.**
  - Any kind of load (up to 16A per channel)
- **Manual control is possible for each channel through the built-in button panel.**
- **220V auxiliary power is not required.**

### Technical Data

<b>Protection Grade</b>	IP 20	EN 60 529	
<b>Safety Class</b>	II	EN 61 140	
<b>Power Supply</b>	Voltage	21V... 30V DC, SELV	
	Current consumption	≤ 10 mA	
<b>External Supply</b>	-	-	
<b>Connections</b>	Screw terminals	0,5...3,31 mm <sup>2</sup> solid and stranded wire 0,5...3,31 mm <sup>2</sup> stranded wire with ferrule	
	Max tightening torque	0.5 Nm	
	KNX	Bus connect terminal	
<b>Outputs</b>	Number	11 output	
<b>Triac</b>	Non-floating	Yes	4 for Heating/Cooling Valve
	Rated Voltage	250 V AC; 50/60 Hz	
	Rated Current	0.5 A	
	Short-Circuit Protection	Yes	
<b>Relay</b>	Switching voltage	250 V AC; 50/60 Hz	1 Aux + 3 Fan Speed
	Switching current 250 V AC	16A / AC 1	
	Switching current 250 V AC, capacitive loads	16A (200µF)	
	Maximum switching power	4000 VA	
	Mechanical life	> 1 x 10 <sup>6</sup>	
	<b>0-10 V</b>	Current Limit	1.40mA
Signal		0...10V DC	
Source/Sink		Source	
<b>Inputs</b>	Number	6 Inputs	
<b>Generic Input</b>	Scanning Voltage (for binary input)	5 V pulsed	4 Input
	Current (for binary input)	1 mA	
	Cable length	< 300 m	
<b>Temp. Input</b>	Sensor Type	NTC	2 Input
<b>Installation</b>	35mm mounting rail	EN 60 715	
<b>Operating Elements</b>	LED (red) and prg. butto	→	For physical address
	Manual Button	→	Switching to manual mode
	Sel. Buttons	→	Fan speed and HVAC mode change
	ON / OFF Buttons	→	Switching Valve ON / OFF
	Switch Button	→	Auxiliary Output Control
<b>Temperature Range</b>	Ambient	-5° C + 45° C	
	Storage	-25° C + 55° C	
<b>Humidity</b>	max. air humidity	85 % no moisture condensation	
<b>Dimensions</b>		66 x W x 90mm	
	Width W in mm	108 mm	
	Width W in units (18 mm modules)	6 modules	
<b>Weight</b>	0,395 kg		
<b>Material</b>	Plastic, polycarbonate, colour grey		
<b>CE</b>	In accordance with the EMC guideline and low voltage		

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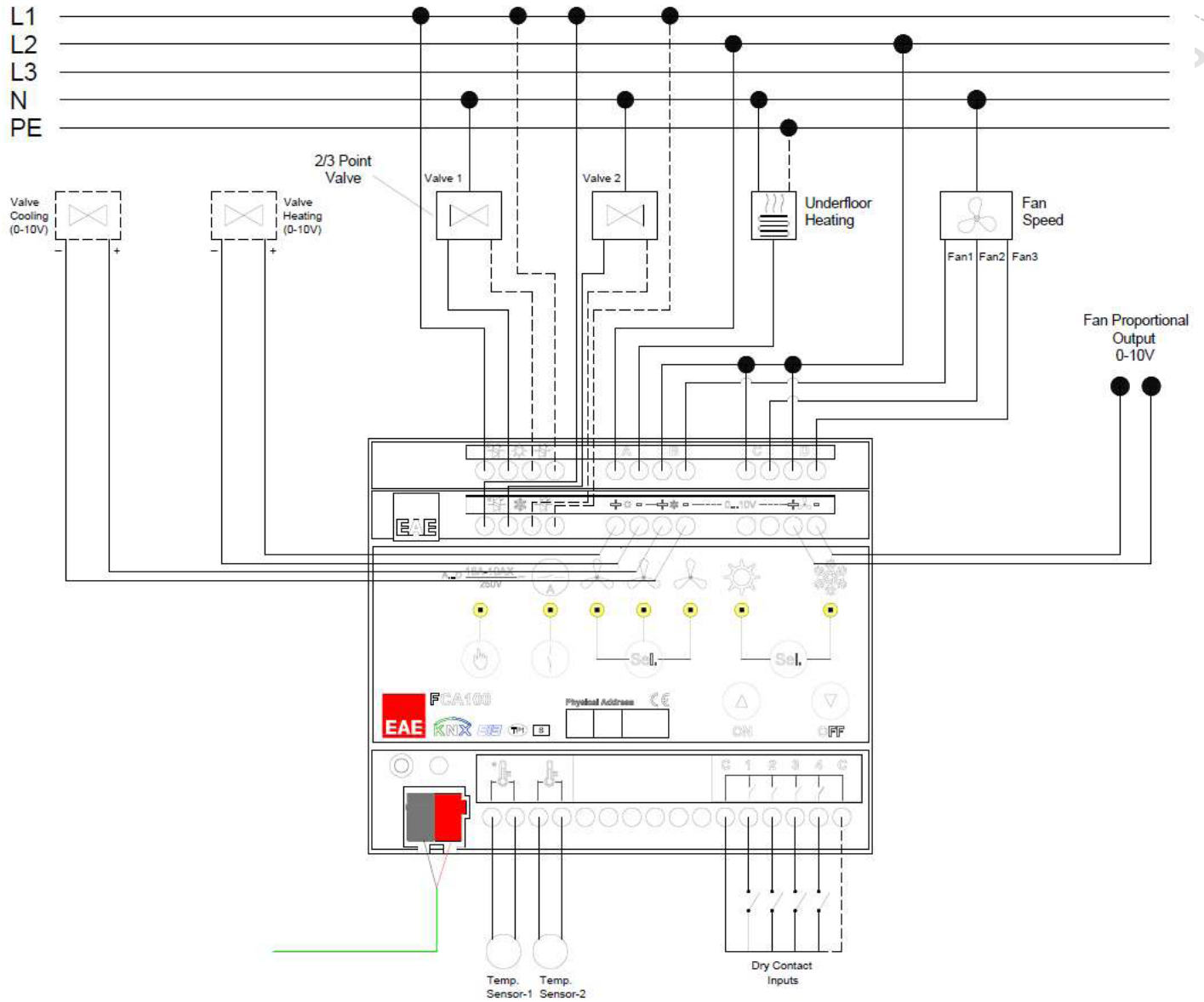
## EAE KNX Fan Coil Actuator

### Variation Table

FCA100 Variation table				
	Valve type	Fan type	Relay	Membran
0	0-10V	0-10V	0 - no relays	0 - No membran
1	Electronic 0,5 A - 1 pcs valve	1/2/3 Step	1- optional 4 pcs relays	1- Yes membran
2	Electronic 0,5 A - 2 pcs valve			

	PRODUCT CODE	DESCRIPTION	Valve	Fan	Relay	Membran
1	SMP FCA100	FAN COIL ACTUATOR KNX, 4 RELAYS, MEMBRAN	all valve, fan options available. There are relays and membran on product			1
2		FAN COIL ACTUATOR KNX , 4 RELAYS, WITHOUT MEMBRAN	all valve, fan options available. There are relays on product. Membran is not on product			0
3	SMP FCA102	FAN COIL ACTUATOR KNX, 0-19V VALVE, 0-10V FAN, WITHOUT RELAY, WITH MEMBRAN	0	0	0	1
4	SMP FCA103	FAN COIL ACTUATOR KNX, 0-19V VALVE, 0-10V FAN, WITHOUT RELAY AND MEMBRAN	0	0	0	0
5	SMP FCA104	FAN COIL ACTUATOR KNX, 0-19V VALVE, 0-10V FAN, 4 RELAYS AND MEMBRAN	0	0	1	1
6	SMP FCA105	FAN COIL ACTUATOR KNX, 0-19V VALVE, 0-10V FAN, 4 RELAYS, WITHOUT MEMBRAN	0	0	1	0
7	SMP FCA106	FAN COIL ACTUATOR KNX, 0-19V VALVE, 3 STEPS FAN, 4 RELAYS, MEMBRAN	0	1	1	1
8	SMP FCA107	FAN COIL ACTUATOR KNX, 0-19V VALVE, 3 STEPS FAN, 4 RELAYS, WITHOUT MEMBRAN	0	1	1	0
9	SMP FCA108	FAN COIL ACTUATOR KNX, ELECTRONIC 0,5A -1 VALVE, 0-10V FAN, WITHOUT RELAYS, WITH MEMBRAN	1	0	0	1
10	SMP FCA109	FAN COIL ACTUATOR KNX, ELECTRONIC 0,5A - 1 VALVE, 0-10V FAN, WITHOUT RELAY AND MEMBRAN	1	0	0	0
11	SMP FCA110	FAN COIL ACTUATOR KNX, ELECTRONIC 0,5A - 1 VALVE, 0-10V FAN, 4 RELAYS AND MEMBRAN	1	0	1	1
12	SMP FCA111	FAN COIL ACTUATOR KNX, ELECTRONIC 0,5A - 1 VALVE, 0-10V FAN, WITHOUT RELAY AND MEMBRAN	1	0	1	0
13	SMP FCA112	FAN COIL ACTUATOR KNX, ELECTRONIC 0,5A - 1 VALVE, 3 STEPS FAN, 4 RELAYS AND MEMBRAN	1	1	1	1
14	SMP FCA113	FAN COIL ACTUATOR KNX, ELECTRONIC 0,5A - 1 VALVE, 3 STEPS FAN, 4 RELAYS, WITHOUT MEMBRAN	1	1	1	0
15	SMP FCA114	FAN COIL ACTUATOR KNX, Electronic 0,5 A - 2 Valve, 0-10V FAN, WITHOUT RELAY, WITH MEMBRAN	2	0	0	1
16	SMP FCA115	FAN COIL ACTUATOR KNX, Electronic 0,5 A - 2 Valve, 0-10V FAN, WITHOUT RELAY AND MEMBRAN	2	0	0	0
17	SMP FCA116	FAN COIL ACTUATOR KNX, Electronic 0,5 A - 2 Valve, 3 STEPS FAN, 4 RELAYS AND MEMBRAN	2	1	1	1
18	SMP FCA117	FAN COIL ACTUATOR KNX, Electronic 0,5 A - 2 Valve, 3 STEPS FAN, 4 RELAYS, WITHOUT MEMBRAN	2	1	1	0

### Connections



Connections 1

### Technical Drawings

