



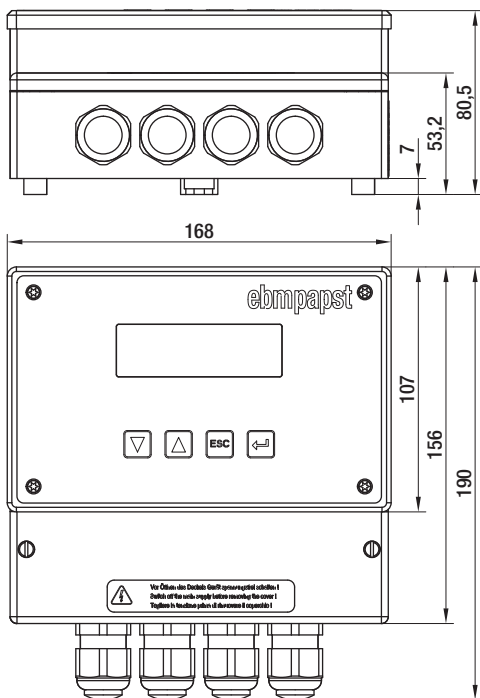
# EC Controller



- **General remarks:** Controller for ebm-papst EC fans. In conjunction with the relevant sensors, ebm-papst fans can be controlled according to the specifications of refrigeration and air-conditioning via 0-10 V.
- **Function:** Multi-functional pressure and temperature control
- **Material:** Plastic housing
- **Type of protection:** IP 54 (acc. to DIN EN 60529)
- **EMC:** acc. to EN 61000-6-3 and EN 61000-6-2
- **Product conforming to standards:** CE
- **Installation:** Vertical wall installation, exposure to direct sunlight and any installation on vibrating ground is not permitted
- **Electrical connection:** via strip terminal
- **Operating controls:** LCD display, 4 push buttons

Nominal data	Nominal voltage	Frequency	Power input	Voltage supply for sensors	Output current	Perm. amb. temp.	Permissible storage temperature	Mass
Type	VAC	Hz	W	VDC	mA	°C	°C	kg
CCC 000-AD06 -02	1~ 200-480	50/60	15	24	120	0..+60	-25..+80	0,73

subject to alterations



- **Inputs/outputs:**
  - analogue inputs to connect up to 2 sensors
  - 24 V supply for sensors
  - 4 digital inputs
  - 2 programmable relay outputs
- **Applications:**
  - Standard temperature control
  - Pressure control of ventilation systems
  - Outside temperature compensated pressure control
  - Pressure control for condensers
  - Pressure control for 2-cycle condensers

These applications are already preset. Parameters for further applications can easily be set individually.
- **Sensors:**
  - Temperature sensor KTY 10-6 (R25=2kΩ)
  - Pressure sensor 0...100 / 200 / 500 / 1000 Pa (0-10 V output)
  - Pressure sensor 0...30 bar (4-20 mA output)
  - Parameters for further sensors can easily be set individually.
- **Menu languages:**
  - German
  - English (factory setting)

KL1		KL2		KL3															
2	4	2	4	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
N/L2	PE	Relay 1	Relay 2	GND	GND	0-20 mA	0-20 mA	GND	GND	GND	GND	D1	D2	D3	D4			GND	GND
L1	PE	Relay 1	Relay 2	Temp	Temp	+24 V	+24 V	0-10 V E	0-10 V E	0-10 V A	0-10 V A	GND	GND	GND	GND				
1	3	1	3	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31

Connector	Pin no.	Connection	Assignment / function
KL1	1	L1	Mains 50/60 Hz, phase 1
	2	N / L2	Mains 50/60 Hz, neutral / phase 2
	3,4	PE	Protective earth
KL2	1,2	Relay 1	Digital output, NOC, max. contact load 2 A / 250 VAC
	3,4	Relay 2	Digital output, NOC, max. contact load 2 A / 250 VAC
KL3	1,3	Temp 1/2	2 inputs for temperature sensor KTY-10-6; R25 = 2 kΩ
	5,7	+24 V	Supply of external sensors 24 V +/- 20 %, 120 mA
	6,8	0-20 mA 1/2	2 control / actual value inputs 0 - 20 mA respectively 4-20 mA for sensors
	9,11	0-10 V E 1/2	2 control inputs 0-10 V for sensors
	13,15	0-10 V A 1/2	2 voltage outputs 0-10 V, output current maximum 10 mA
	18,20,22,24	D1 - D4	4 digital inputs
	2,4,10,12,14,16,17,19,21,23,30,32	GND	GND

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