

■ **Universal controller EUR 6 C**
Electronic control unit with power supply unit on the phase control principle.

□ **Area of application**

For control of central ventilation systems or for stepless control of one or more speed control-lable 1 ph. fans.
In domestic, commercial, industrial and agricultural applications.

□ **Control functions**

Simple and quick start-up of parameters via integrated "startup wizard". Depending on the connected sensor a control can be carried out according to following control variables:

- **Manual speed control**, e.g. adjustable via keyboard
- **Temperature** (required accessory temperature sensor LTR 40 or LTK 40)
- **Temperature with additional functions** pre-programmed, (required accessory temperature sensor LTR 40 or LTK 40)
- **Differential temperature control** (required accessory temperature sensor LTR 40 or LTK 40)
- **Differential pressure** (required accessory differential air pressure sensor LDF 500)
- **Differential pressure with outside air temperature compensation** (required accessory differential air pressure and temperature sensor LDF 500 and LTR 40 or LTK 40). Ideal for central ventilation systems according to DIN 18017 in residential construction.
- **Air velocity** (required accessory air velocity sensor LGF 10)

The required sensor is to be ordered separately as an accessory. The control ranges are freely adjustable within the sensor's range.

The aligned output voltage according to nominal value and current value is between 0 % (35 V) to 100 % (approx. 80 V – 230 V). The specification of minimum and maximum values is possible.

- Main switch with positions:
"0" = Controller off
"I" = Automatic operation
"230 V" = uncontrolled direct supply.

Inputs and outputs:

Outputs:

- 1 x motor connection based on phase control principle
- 1 x analogue output 0–10 V for control of e.g. frequency inverter, shutter, EC motor.
- 2 x potential-free relay, programmable, alarm, heating or status signals

EUR 6 C



Inputs:

- 2 x sensor inputs, programmable on the respective necessary sensor type

- Connection of thermal contacts for motor protection

The whole system stops when a thermal contact TK trips. It must be restarted manually once the motor has cooled down.

- 2 x digital inputs, programmable for release, external interference, limit on/off, switching night reduction, internal/external, control/manual operation, reset, max. speed on/off

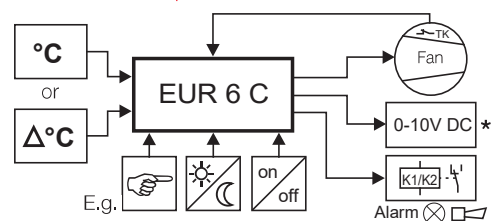
Possible settings

- Stepless selection of setpoints and control range
- Min./max. power (speed) limit
- On/off switching of minimum air flow volume
- Switching e.g. heating via programmable relay
- Stepless selection for alarm indication at low and high temperature, output on display or additionally on relay
- Min. and max. shutter opening
- Reverse control functions
- Continuous control of ventilation dampers
- Adjustments made via a dirt-resistant membrane keypad.

□ **Display**

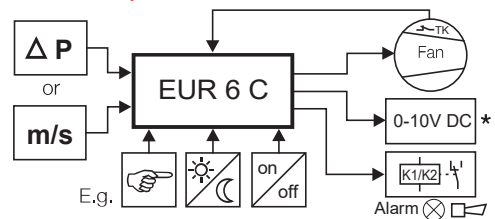
- Multi-function LC display
- Numerical setpoint and actual value display with scale
- Symbols (alarm, heating, release)
- Bar graph/level indicator
- Text display for menu, status and fault indications

Mode 2.03: Temperature control with additional function
Mode 2.05: Differential temperature control



* e.g. for shutter, frequency inverter

Mode 4.01: Differential pressure control
Mode 6.01: Air velocity control



* e.g. for shutter, frequency inverter

Type EUR 6 C Ref. no. 1321

Voltage	230 V~, 50/60 Hz
max. current	6 A
Required minimum current	0.2 A
Controlled output voltage	0 – 100 %
Control range temperature	0 – 40 °C
Control range pressure	0 – 500 Pa
Control range velocity	0 – 10 m/s
Permitted ambient temp.	0 to +40 °C
Protection class	IP 54
Casing	surface mounted installation, polymer, light grey
Dim. mm	W 223 x H 200 x D 131
Weight	approx. 1.4 kg
Wiring diagram no.	SS-911

■ **Note**

Electronic speed controllers may produce motor humming.
Transformer controllers are to be used for noise critical applications.

■ **Necessary accessories**

Type LDF 500 Ref. no. 1322

Differential air pressure sensor
Range 0 – 500 Pa

Type LGF 10 Ref. no. 1325

Air velocity sensor
Range 0 – 10 m/s

Type LTA 40 Ref. no. 1336

Temperature sensor for outside
Range –20 to +60 °C
Protection class IP 54

Type LTK 40 Ref. no. 1324

Temperature sensor for duct
installation
Range 0 to +40 °C

Type LTR 40 Ref. no. 1323

Room temperature sensor
Range 0.5 to +40 °C