

EUR EC



■ **Universal control system**
EUR EC
Electronic control unit with
0–10 V DC control output.

□ **Area of application**
For stepless control or regulation
of single and three phase EC
fans with a setpoint input of
0–10 V DC.

- **Control functions**
Simple and quick start-up of pa-
rameters via integrated “startup
wizard”. Depending on the con-
nected sensor a control can be
carried out according to follow-
ing control variables:
- **Manual speed control**, e.g.
adjustable via keyboard
 - **Temperature** (required accesso-
ry temperature sensor LTR 40
or LTK 40)
 - **Temperature with additional
functions** pre-programmed,
(required accessory temperature
sensor LTR 40 or LTK 40)
 - **Differential temperature con-
trol** (required accessory temper-
ature sensor LTR 40 or LTK 40)
 - **Differential pressure** (required
accessory differential air pres-
sure sensor LDF 500)
 - **Differential pressure with out-
side air temperature compen-
sation** (required accessory diff-
ferential air pressure and tem-
perature sensor LDF 500 and
LTR 40 or LTK 40). Ideal for cen-
tral ventilation systems accord-
ing to DIN 18017 in residential
construction.
 - **Air velocity** (required accessory
air velocity sensor LGF 10)

The required sensor is to be or-
dered separately as an accessory.
The control ranges are freely ad-
justable within the sensor's range.

The aligned output voltage accord-
ing to nominal value and current
value is between 0 % (0 V DC) to
100 % (10 V DC). The specification
of minimum and maximum values
is possible.

Inputs and outputs:

Outputs:

- 2 x analogue outputs 0–10 V to
control e.g. EC motor, frequency
inverter, shutter
- 2 x potential-free relay, pro-
grammable, alarm, heating or
status signals

Inputs:

- 2 x sensor inputs, programma-
ble on the respective necessary
sensor type
- 3 x digital inputs, programmable
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 pro-
grammable relay
- Stepless selection for alarm
indication at low and high tem-
perature, 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.

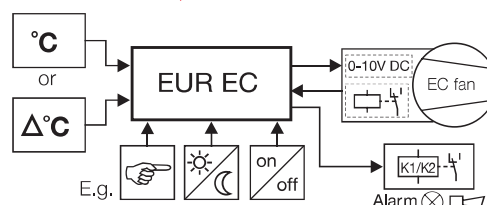
□ Display

- 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

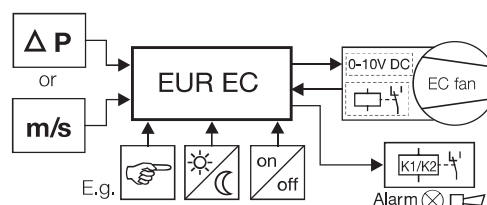
■ Note

Depending on the fan type to
be connected, multiple fans
can be connected in parallel
to an EUR EC.

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



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



Type EUR EC	Ref. no. 1347
Voltage	230 V~, 50/60 Hz
Control output	0–10 V / max. 10 mA
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. 1,0 kg
Wiring diagram no.	SS-1001

■ 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 installation 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	