

EDR



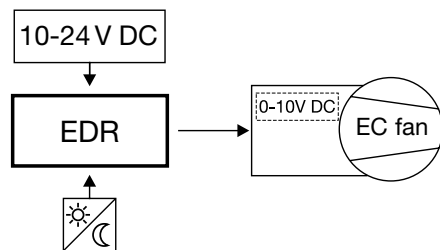
EC

ETR

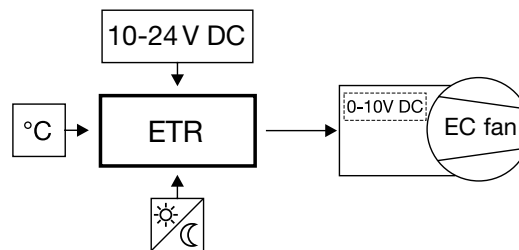


EC

Pictorial schematic EDR



Pictorial schematic ETR



■ Electronic controller for differential pressure or temperature

□ Area of application

For continuously variable control of single and three-phase EC fans or frequency inverters with a setpoint input of 0–10 V DC. Provides the EC fan or frequency inverter with a supply voltage of 10–24 V DC/6 mA (safety extra-low voltage), the controller can be supplied directly from it, alternatively via a power supply unit (NG 24, accessories).

□ Display

- Multifunctional LCD display.
- Numerical setpoint and actual value display with measur. unit.
- Alarm, day/night operation.
- Text display for menu, status.

■ Control functions

Quick and easy commissioning of parameters using the LCD display and three internal input buttons. Permanent measurement display in LCD display. Optional parameterisation as

- **Actuator** = 0–10 V analogue output proportional to measured actual value as control variable for external controls or as
- **Controller** = controlled 0–10 V analogue output depending on the set setpoint and the measured actual value.

The controlled output voltage balancing the actual value and setpoint value lies between 0% (0 V DC) and 100% (10 V DC). The minimum and maximum values can be specified, two setpoints (e.g. for day/night operation) can also be set. Switching by means of weekly timer (types WSUP, WSUP-S, see accessories).

■ Differential pressure controller EDR

With fixed integrated pressure sensor and connections for pressure hoses (DN 5 mm, on-site).

- Adjustable pressure ranges: 0–1000 Pa, 0–500 Pa, 0–300 Pa, 0–200 Pa.

■ Temperature controller ETR

The controller is freely adjustable with the sensor measurement ranges, optionally in heating or cooling function, with adjustable minimum air shut-off.

- Temperature control range –50 to +150 °C.
- Appropriate sensors (types LTA, LTK, LTR, see accessories) are available for temperature measurement.

■ References

If necessary, multiple fans can be connected in parallel to EDR or ETR depending on the fan type to be connected.

■ Accessories for EDR and ETR

NG 24 Ref. no. 01439
Power supply unit for DIN top hat rail mounting, input 100–240 V AC, output 24 V DC/1.75 A. Required if fan type does not supply 10–24 V DC/6 mA.

WSUP Ref. no. 09990
Weekly timer.

WSUP-S Ref. no. 09577
Weekly timer for top hat rail mounting.

■ Accessories for ETR

LTA 40 Ref. no. 01336
External temperature sensor, measurement range –20 to +60 °C, protection category IP54.

LTK 40 Ref. no. 01324
Temperature sensor for rectangular duct installation, measurement range 0 to.

LTR 40 Ref. no. 01323
Room temperature sensor, measurement range 0.5 to +40 °C.

Type	Ref. no.	Power supply	Analogue outputs	Signal input	Perm. humidity	Protection category	Protection class	Permissible ambient temp.	Casing	Dim. mm	Weight	Wiring diagram
EDR	01437	10–24 V DC, 6 mA	0–10 V DC 10 V / 0.3 mA 24 V / 10 mA	10–24 V DC / 6 mA Switching setpoint 1/2 (day/night)	85 %	IP54	III (safety extra-low voltage, galvanically isolated)	–10 to +60 °C	Surf.-mount., plastic, light grey	W 137 H 106 D 56	250 g	1039
ETR	01438	10–24 V DC, 6 mA	0–10 V DC 10 V / 0.3 mA 24 V / 10 mA	10–24 V DC / 6 mA Switching setpoint 1/2 (day/night)	85 %	IP54	III (safety extra-low voltage, galvanically isolated)	–10 to +60 °C	Surf.-mount., plastic, light grey	W 137 H 106 D 56	200 g	1298