

Installation and operation

The fans VRR160/ALM-EC-ZS (VRE160/ALM-EC-ZS) with integrated time control have been developed on the basis of the proven type VRR160/ALM (VRE160/ALM).

The main field is their use in apartment ventilation (central ventilation systems) to realize a two step operation with different day and night flow rate.

For use see also operating instruction „Roof fan VRR“ („Radial fan VRE / ALM“).

0. Connection and operating elements

The whole electrical and electric parts (EC-Controller and time control device ZS160-EC) is integrated in the fan.

Pay attention! Protect the devices from rain, snow and other atmospheric influences.

For cleaning and maintenance switch off the mode switch (position „0“).

Attention! There is no galvanic separation!

Supply: terminal L, N und PE in casing of time control device ZS160-EC

Warning: Operations on electrical equipment have to be done by qualified personnel only.

1. Manual operation

- Mode switch in position **II 100%** --> fan is running with maximum speed

2. Time operation (2-step operation day and night)

- mode switch in position **I**
- adjust the wanted flow rate with two set-point potentiometer

The time switch offers the possibilities

- daily and weekly program (for day or group of days)
- automatic change of winter/summer time (EU-regulations)

Standard programming of timer see below. It can be changed easily.

Further informations see operating instructions of timer (in the casing of time control device)

The timer is set in **stand by mode** (display is off) if power goes off! It is set back in auto mode if the power is back on.

