OPTIGO 10

- Controllers
- HVAC Controller

HVAC controllers type OPTIGO 10

Preprogrammed, easy to configure HVAC controller with numeric/graphic background illuminated display, with built-in week scheduler

Brand

- Regin

Application

- Supply air temperature control
- Supply air temperature control with outdoor compensation
- Exhaust air / room temperature control with cascade function
- Radiator control with outdoor compensation
- Tap hot water control

Specifications

- Supply voltage: 24 V AC (OPTIGO 10) / 230 V AC (OPTIGO 10-230V)
- 2 analogue input for PT1000
- 2 digital input
- 1 universal input PT1000 or digital
- 2 analogue ouputs 0 - 10 V DC
- 2 digital outputs triac controlled 24 V AC - 0,5 A
- 1 digital output change-over relay 230 V AC - 5 A

Mounting

- DIN-rail

Accessoires

- Transfo 230 / 24 V AC, **Type TRAFO 15/D** (only for OPTIGO 10)
- Duct temperature sensor, **Type TG-KH/PT1000 / TG-K3/PT1000**
- Room temperature sensor, **Type TG-R5/PT1000**
- Outdoor temperature sensor, **Type TG-UH/PT1000**
- Clamp-on temperature sensor, **Type TG-AH3/PT1000**
- Pressure switch, **Type DTV**

Technical data

- Power consumpition: 6 VA
- IP 20

Function

- Supply air temperature control : The supply air temperature is kept at the setpoint value by controlling the ouput signals on AO1 and AO2. A single PI control loop is used
- Supply air temperature control with outdoor compensation : The supply air temperature is kept at the setpoint value by controlling the ouput signals on AO1 and AO2. A single PI control loop is used. The setpoint is automatically adjusted according to the outdoor temperature
- Exhaust air / room temperature control with cascade function : An offset in room temperature will adjust the supply air temperature setpoint so as to eliminate the room temperature offset. One PI and one P control loop are used. The supply air temperature can be minimum and maximum limited
- Radiator control with outdoor compensation : The water temperature setpoint is changed according to the outdoor temperature. A single PI control loop is used. A room temperature sensor can be added to give corrective action if the room temperature differs from the setpoint
- Tap hot water control : The water temperature is kept constant by controlling the output signal on AO1. A single PID control loop is used

Settings

- Setpoint supply air temperature: 10 to 40°C
- Setpoint room temperature: 10 to 40°C
- Setpoint tap hot water: 10 to 80°C
- P-band: 0 to 99°C
- I-time: 0 to 990 s
- D-time: 0 to 99
- Cascade factor: 0 to 99°C
- Damper min. limit: 0 to 99
- Start outdoor compensation: -30 to 50°C

Order example

OPTIGO 10 24V
Explanation
OPTIGO 10 = Type HVAC controller
24V = Supply voltage AC, **230V**