

## CRW1-T-VAV01

### VAV Room Controller

#### Description

The VAV room controller (CRW1-T-VAV01) is tailored for individual room temperature control in commercial, industrial and residential buildings

The VAV room controller comes with an analogue control output to the Gruner VAV Compact Controller

The VAV room controller supports cooling or heating mode

The power supply is AC/DC 24 V



Order Code	Application	Communication	Output	Input
CRW1-T-VAV01	Cooling	N/A	1x 0–10 V	N/A
CRW1-T-VAV01H	Heating	N/A	1x 0–10 V	N/A

#### Features

- » Elegant, extra slim design
- » Analogue control output to Gruner VAV Compact Controller
- » Room temperature measurement
- » Room temperature control output
- » Temperature setpoint setting
- » Temperature controller
- » Comfort/economy selection
- » Cooling or heating mode
- » Configurable user parameters
- » Large display
- » White backlit LCD
- » Protection IP20
- » EU box mounting

## Application

The CRW1-T-VAV01 series VAV room controller is used in individual rooms or zones in buildings. It is tailored for the Gruner Compact VAV Damper Actuator. The room temperature control depends on the room temperature and the selected setpoint.

The control signal to the Gruner VAV Compact Controller is 0–10 V.

Depending on the room temperature control signal, the VAV Compact Controller will control the air volume based on the minimum/maximum settings.

## Notes of Usage

Please read this data sheet carefully. CRW1-T-VAV01 room controller is designed and manufactured in accordance with the latest technological developments and safety standards. To avoid injury and property damage, safety warnings must be observed.

## Caution



Authorized service personnel must perform assembly, maintenance, and repair.

The device's power supply is AC/DC 24 V. Disconnect the device from the power supply before removing the front plate.

## Technical Data

### Product Data

Power supply	AC/DC 24 V 50/60 Hz
Power consumption	Max 1 W
Electrical connection	Terminal connection
IP rating	IP20 according to IEC60529
Product safety	Safety class III
Product standard	2014/30/EU Electromagnetic Compatibility (EMC)
CE marking	Automatic electrical controls for household and similar use
Measuring range	0 °C to 50 °C
Typical accuracy	±0.5 °C
Resolution	0.1 °C
Comfort temperature setting	0 °C to 50 °C
Economic temperature	Fixed: Cooling mode 26 °C / Heating mode 16 °C
Dimension	86 × 86 × 24 mm
RoHS compliance, in accordance with	Directive 2011/65/EU, as amended by (EU) 2015/863
REACH regulation	Regulation (EC) No. 1907/2006
Operating climatic conditions	IEC 60 721-3-3
Operating mechanical conditions	IEC 60 721-3-2, class 2M2
Transport to climatic conditions	IEC 60 721-3-2
Transport mechanical conditions	IEC 60 721-3-2, class 2M2
Storage climatic conditions	IEC 60 721-3-1
Storage mechanical conditions	IEC 60 721-3-1, class 2M2

## Ordering Information

Product Code	Description	Power Supply	Communication
CRW1-T-VAV01	1 analogue cooling output (0–10 V)	AC/DC 24 V	N/A
CRW1-T-VAV01H	1 analogue heating output (0–10 V)	AC/DC 24 V	N/A

## Mounting Location



The controller is for indoor use only

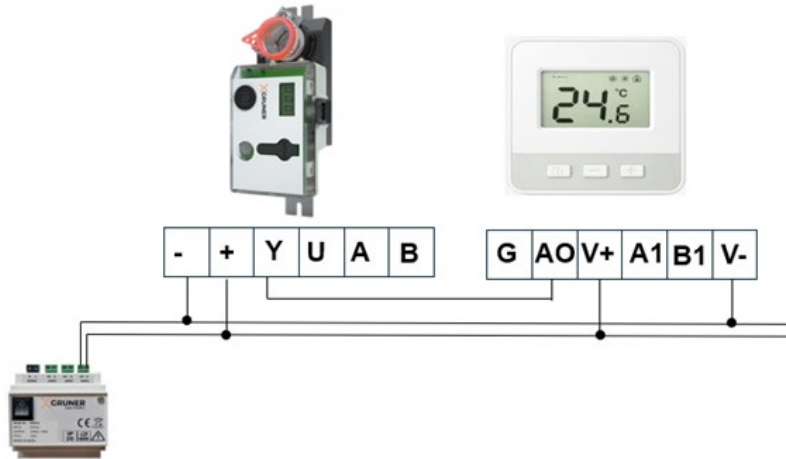
## Mounting Instructions



### Please follow the instructions below:

- Step 1: Take the controller out of the package
- Step 2: Read the data sheet inside the package
- Step 3: Separate the front plate and the back plate, using a screwdriver
- Step 4: Fix the back plate onto the electric box with two screws
- Step 5: Connect the wires properly according to the wiring diagram below
- Step 6: Attach the front plate to the back plate, making sure the pin connectors on each side are properly aligned
- Step 7: Compare the installation with the reference images
- Step 8: Apply power to the controller

## Connection Diagram



## Display and Operation

The display shows

- Actual room temperature
- Actual comfort/economy mode
- Actual heating/cooling mode



Operation

To change between comfort/economy mode, press the home button



To change the control setpoint, press the following buttons:

The **SET** icon will appear, and you can change the setpoint accordingly



The display will return to the original screen after 10 seconds without any changes

## Dimensions (mm)

