Automation System TROVIS 5500
Room Controller TROVIS 5572

Application

Room temperature control in a room by heating or cooling

Special features

- Direct access to the operating modes:
  Automatic mode – Time-of-use – Outside time-of-use
- Room set point and measured room temperature readings displayed
- Three time schedules configurable separately for each day of the week
- Vacation program mode with different set point
- Temporary set point correction
- Parameterization and configuration directly at the controller or over a station for operation and monitoring
- Communication over Modbus interface for integration into TROVIS 5500 System
- Inputs and outputs extendable using Modbus I/O module (accessories)

Operation

The current set point for times-of-use and outside times-of-use can be temporarily changed over the ↑ and ↓ keys when the controller cover is closed. The changed set point remains valid until the next time-of-use starts (automatic mode) or until the operating mode is changed, however, eight hours at the maximum.

When the controller cover is opened (Fig. 1) additional operating keys are accessible exist for parameterization and configuration purposes.

The changeover key allows the controller time and the time schedules to be altered.

Parameters are selected and changed using the ↑, ↓ and ✳ keys in the Set points, Control and Communication parameter levels.

The operating mode can be changed by pressing the (Automatic mode – Time-of-use – Outside time-of-use).

Fig. 1: *TROVIS 5572 Room Controller (with front cover open)*

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Data Sheet **T 5572 EN**

TROVIS 5572 Room Controller

Technical data	
Inputs	1 room sensor (internal) 1 presence button (internal) 2 binary inputs for for window contact/ dew-point and operating mode over-ride
Outputs	2 triac outputs 24 V AC, 1 A 2 0 to 10 V outputs
Power supply	24 V AC
Interface	Modbus (RS-485)
Ambient conditions	0 to 50 °C (operation) –10 °C to 60 °C (storage and transport) 95 % rH, non-condensing
Degree of contamination	2 according to VDE 0110
Noise immunity	According to EN 61000-6-1
Noise emission	According to EN 61000-6-3
Dimensions in mm	W x H x D: 113 x 91 x 30

Electrical connection and installation

Terminal assignment		
1	RS-485; Modbus (slave)	Connection to control station (GLT) or to a Modbus master interface
2		
3	0 to 10 V output 1	
4	0 to 10 V output 2	
5	GND, 0 to 10 V outputs	
6	Binary input BE1	
7	Binary input BE2	
8	GND, binary inputs	
9	24 V AC power supply	AC 1
10		AC 2 has GND reference
11	Triac output 1	24 V AC, 1 A
12		
13	Triac output 2	24 V AC, 1 A
14		
15	RS-485, Modbus (master)	Connection to Modbus I/O module
16		

To install and wire the room controller, the housing section needs to be separated from the base. To proceed, press down the tongue on the bottom of the controller and tip the housing section forward to remove it from the base. Screw the base to the wall and connect the wiring. Push the top of the housing section onto the base and push it down.

Ordering text

TROVIS 5572 Room Controller

Accessories

Modbus I/O module (1402-0328)

Specifications subject to change without notice.

Modbus I/O module (1402-0328)

Extension of inputs and outputs of the room controller

Technical data	
Inputs	6 binary inputs · Optionally can be used as: – 0 to 10 V input (inputs 1, 2, 5, 6) – Pt 1000 input (inputs 3, 4) – 0 to 1000 Ω input (inputs 3, 4) – Counter inputs, max. 1 kHz (inputs 1, 2, 3, 4) – 0 to 10 V **outputs** (inputs 5, 6)
Outputs	4 binary outputs Max. 250 V AC/100 V DC, 2 A (relay)
Interfaces	Modbus RS-485
Operating voltage	230 V AC
Dimensions in mm	W x H x D: 94 x 96 x 60

Terminal assignment			
1	BA1	Binary output 1	Max. 250 V AC, 2 A 100 V DC, 2 A
2	BA2	Binary output 2	
3	COM1/2	COM binary output 1/2	
4	BA3	Binary output 3	Max. 250 V AC, 2 A 100 V DC, 2 A
5	BA4	Binary output 4	
6	COM3/4	COM binary output 3/4	
7	AC1	Operating voltage 85 to 250 V AC	AC 1
8	AC2		AC 2 has GND reference
9	BE1 ZE1 AE1	Binary input 1 or counter input 1 or 0 to 10 V input	
10	BE2 ZE2 AE2	Binary input 2 or counter input 2 or 0 to 10 V input	
11	GND	GND input 1/2	
12	BE3 AE3	Binary input 3 or Pt 1000 or 0 to 1000 Ω	Temperature measurement with Pt 1000: –40 to 160 °C or Resistance measurement: 0 to 1000 Ω
13	BE4 AE4	Binary input 4 or Pt 1000 or 0 to 1000 Ω	
14	GND	GND input 3/4	
15	BE5 ZE3 AE5 AA1	Binary input 5 or counter input 3 or 0 to 10 V input or 0 to 10 V output	AE5 and AA1: Max. 2.5 mA
16	BE6 ZE4 AE6 AA2	Binary input 6 or counter input 4 or 0 to 10 V input or 0 to 10 V output	AE6 and AA2: Max. 2.5 mA
17	GND	GND input/output 5/6	
18	A1	RS-485/Modbus (slave)	Connection to TROVIS 5571, 5572, or Modbus I/O module
19	B1		
20	A2	RS-485/Modbus	Intended as extension
21	B2		

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