SIEMENS



DESIGO™ RXA

Non-communicating room controllers

RXA29.1

For fan-coil systems

The RXA29.1 room controller are used for temperature control in individual rooms.

- For 2-pipe or 4-pipe fan-coil systems, with or without changeover
- Control of AC 24 V PWM¹ thermic valve actuators, 3-position AC 24 V valve and damper actuators
- Pl control
- AC 230 V operating voltage
 - 1) PWM = pulse-width modulated

Use

The RXA29.1 room controller is optimised for control of fan-coil systems in individual rooms.

The controller application and the configuration of connected field devices are defined manually with DIP switches and a potentiometer.

For a detailed description of functions, refer to the DESIGO RXA applications library, document CA2A3886.

Types

| Туре | AC 24 V triac outputs | Relay outputs |
|---------------|---------------------------------|---------------|
| RXA29.1/FC-04 | For two thermic valve actuators | None |
| | or two 3-position actuators | |
| RXZ20.1 | Accessories: terminal covers | |

Ordering

When ordering, please specify the quantity, product name and type code. The RXZ20.1 terminal covers are supplied in packs of 10 pairs and must be ordered as a separate item (see also "Mounting").

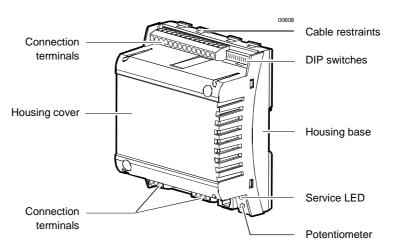
Example:

| 30 | Room controllers, type RXA29.1 | RXA29.1/FC-04 |
|----|--------------------------------|---------------|
| 30 | Pairs of terminal covers | RXZ20.1 |

Compatibility

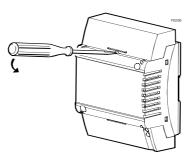
The QAA24 and QAA27 room temperature sensors and the Siemens Building Automation field devices are suitable for use with the RXA29.1 room controller. For details, refer to the product range description, document CA2S3880.

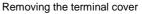
The RXA29.1 room controller consists of a housing base, a housing cover and the printed circuit board. The printed circuit board incorporates the connection terminals and the DIP switches used for configuration. The controllers also have a potentiometer for setpoint adjustment and testing, and a Service LED with different flashing patterns to indicate operational status and test states.



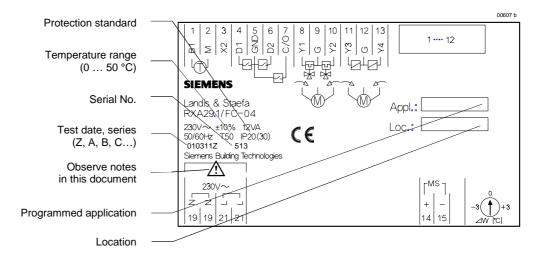
Terminal cover

Terminal covers (RXZ20.1) are available as an option, to protect the connection terminals from physical contact and dirt. The Service LED and the potentiometer remain visible even with the terminal covers fitted. The potentiometer can be operated with a screwdriver. The cable is connected to the room controller by breaking out the perforated cable entry guide.





Label

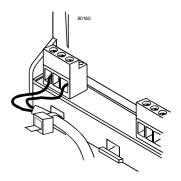


Options for use of the labeling fields "Appl." and "Loc.":

- Handwritten entry of location and the final application or
- Printed adhesive label

Connection terminals To avoid incorrect wiring, terminals which can be connected to AC 230 V (supply and relay outputs) are physically separate from the other terminals.

Caution The cable restraints on the housing base *must* be used for the connections to terminals 19 ... 28 (AC 230 V). The conductors must be secured with cable ties (see diagram).



Disposal

Note



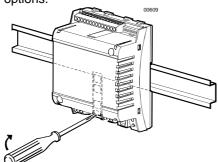
The controller includes electrical and electronic components and must not be disposed of as domestic waste.

Current local legislation must be observed.

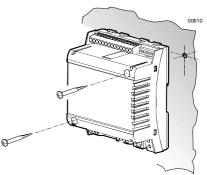
Engineering

| | For information on selecting and sizing the cables for the power supply and for the field devices, refer to the installation guide, document CA2Z3884. The room controllers have an AC 230 V mains supply voltage. The controlled devices (valves and damper actuators) are supplied directly from the room controller. This means that a separate AC 24 V supply is not necessary for the RXA29.1 controller and the associated field devices. |
|---------------------------|---|
| Master/slave | Where several room controllers are operating in the same space, they must be synchronized via the master/slave interface. Up to 3 slaves may be used (operating in parallel). The outputs of the master controller are mapped in the slaves. Note that room units connected to a slave controller cannot be operated. The polarity of the M/S wires has to be respected! The master/slave interface is compatible with the PRFA and PRFB controllers in the PRONTO range. |
| AC 230 V supply cables | Sizing and fuse protection of the supply cables depends on the total load and on local regulations. The cables must be secured with cable restraints. |
| AC 24 V triac outputs | The simultaneous load on outputs Y1 Y4 must not exceed 9.5 VA.Example:Y1 (heating)2 thermic valve actuators, type STE72 6 WY2 (cooling)2 thermic valve actuators, type STE72 6 WY3, Y4 (outside air)Damper actuator 3.5 VAThe maximum load is 9.5 VA for the heating sequence and 9.5 VA for the cooling sequence. This is acceptable because the two sequences never operate at the same time. |

The room controllers can be mounted in any orientation using the following fixing options:



Rail mounting The housing base is designed for snapmounting on DIN rails, type EN50022-35x7.5 (can be released with a screwdriver)



Surface mounting There are two drill holes for screwmounting (see "Dimensions" for drilling template). The housing base is fitted with raised supports. Screws: Max. diameter 3.5 mm, min. length 38 mm

When mounting note the following:

- The controller should not be freely accessible after mounting
- Ensure adequate air circulation to dissipate heat generated during operation.
- Easy access is required for service personnel
- Local installation regulations must be observed.

Mounting instructions and a drilling template are printed on the controller packaging.

Commissioning

The controller application and the configuration of the connected field devices are defined manually with DIP switches and the potentiometer. The Service LED provides information on power up and operational status.

There is no special test for checking that the connected field devices match the DIP switch settings. Depending on the application, if the controller has insufficient information it switches to "Idle" mode (all outputs at zero) and the LED remains on continuously.

For details refer to the applications library CA2A3886.

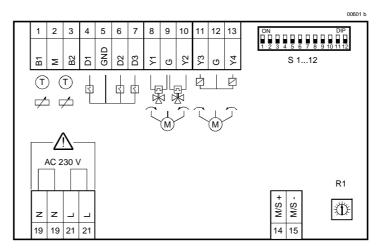
Caution In the event of a long-term short circuit or overload, the thermal fuse in the transformer may trip. The controller must then be replaced.

There is no protection against accidental connection with 230 V on the AC 24 V side.

Technical data

| Power supply Working voltage AC 230 V ± 10 % Frequency Control algorithm Power consumption with output field devices commended Max. 12 VA Operating data Control algorithm PI Inputs Signal inputs D1 D3 (do volt-free contacts) 3 Control algorithm DC 16 V Control algorithm Duratity Control voltage DC 16 V Control voltage control DC 06 nA Control voltage control Max. 100 út Measured value repats Brown LSS N 1000 temperature sensor Control voltage control Max. 10 k2 Measured value repats Brown LSS N 1000 temperature sensor Control voltage control LSS N 1000 temperature sensor Control voltage control LSS N 1000 temperature sensor Sequence + 12 control Max. 0.2 K Measuring range 0 50 °C Sequence + 12 control voltage (SELV, not sensor temp, (without catbol) Sequence + 1 degree and users Output voltage (SELV, not sensor temp, (without catbol) Max. 0.2 K Output voltage (SELV, not sensor temp, (without catbol) Cat V ONOFF, PVM or 3-position (depending on splication) | | | | |
|---|-----------------------------|---|-----------------------------|--|
| Power consumption with output filled devices connected Max. 12 VA Internal, non-resetting Operating data Thermal, non-resetting Inputs Signal inputs D103 (for volt-free contacts) Quantity 3 Contact voltage DC 16 V Contact voltage DC 18 V Contact voltage DC 18 V Contact voltage DC 18 V Contact unrent DC 8 mA Contact voltage DC 18 V Contact voltage control Max. 100 D Messured value inputs B1 and B2 Type of signal is programmable (DIP switch) Temperature sensor L&S NI 1000 temperature sensor messuring ency 050 °C Sensor current 2.3 mA Resolution 050 °C Sensor current 2.3 mA Resolution 0 | Power supply | Working voltage | | AC 230 V ± 10 % |
| output field devices connected Max. 12 VA Operating data Thermal, non-resulting Inputs Operating 30103 (for volt-free contacts) Quantity 3 Control algorithm PI Control voltage DC 16 V Contact oursent DC 3 N Contact transfer resistance Max. 100 0 Not stabilis for pulse control Measured value inputs B1 and B2 Type of signal is programmable (DIP switch) LSS N1 1000 temperature sensor Measuring range 0 S0 °C Sensor current 2.3 mA Resolution Q2 N Measuring range AC 24 V AC 24 V AC 24 V Output voltage (SELV, not earthed) AC 24 V AC 24 V traits control all pointinal load Max. 5 S N1 Countart soutput strutters 3 Colde connections Connection terminals for signals and | | | 14 | 50/60 Hz |
| Internal lose Thermal, non-resetting Control algorithm PI Inputs Signal inputs D1 D3 (for volt-free contacts) 3 Control voltage DC 16 V Control voltage DC 16 V Contact urgent DC 8 mA Measured value inputs B1 m 602 Type of signal is programmable (DIP switch) Measuring range 0 50 °C Sensor current 2.3 mA Resolution Max. 0.2 K AC24 V Inscriptes Max. 0.2 K AC24 V Inscriptes VI not experiative sensor Output voltage (SELV, not earthed) AC24 V Inscriptes AC24 V Inscriptes Max. 0.2 K Couput current Max. 0.5 A Total nominal load Max. 0.5 A Couput current Max. 0.4 V ONOFF, PWM or 3-position (depending on application) Output voltage (SELV, not | | • | | M 40.1/A |
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| Outputs Outputs 0 Standb Standb Standb Outputs Outputs 0.2 Standb DC 16 V Contact current DC 28 mA Contact current DC 28 mA Max. 100 D Contact insulation resistance Min. 50 KD Not suitable for puts control Massured value inputs B1 and B2 Temperature sensor L&S NI 1000 tomperature sensor Temperature sensor L&S NI 1000 D. 50 °C Sensor current 2.3 mA Resolution D.2 St K Measuring arrong 25 °C sensor temp. (without cable) Max. 0.2 K Outputs AC24 V triac outputs, Y1 Y4 Quarthy 4 Cata V ONOFF, PWM or 3-position (depending on application) Output voltage (SELV, not earthed) AC 24 V ONOFF, PWM or 3-position (depending on application) Output voltage (SELV, not earthed) AC 24 V ONOFF, PWM or 3-position (depending on application) Interfaces Master/daw interface Proprietary AC 24 V ONOFF, PWM or 3-position (depending on application) Output voltage (SELV, not earthed) Ca 24 V ONOFF, PWM or 3-position (depending on application) Output simultaneously (a 2 ben on ub voltage 35 VA) Interfaces Master/daw interface <td></td> <td>0</td> <td></td> <td>PI</td> | | 0 | | PI |
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| Sensor current 2.3 mÅ Resolution 0.2 K Measuing error at 25 °C sensor temp. (without cable) Max. 0.2 K Outputs Setpoint adjuster BSGN-U1 Reset range +/-3K AC24 V triac outputs, Y1 Y4 Quantity AC24 V triac outputs, Y1 Y4 AC 24 V ON/OFF, PWM or 3-position (depending on application) Output current Max. 9.5 A Total nominal load Max. 9.5 A (at both outputs simultaneously) (e.g. 2 thermic values, type STE72 per heating and cooling sequence + 1 damper actuator 35 VA) Interfaces Master/slave interface Proprietary Max. number of slaves 3 Cable connections Singel cable lengths Singel cable lengths Single cable lengths Signal inputs D1D3 Max. 100m where A ≥ 1.5 mm² AC24 V triac outputs, Y1 Y4 Max. 100m where A ≥ 1.5 mm² AC24 V triac outputs, Y1 Y4 Max. 100m where A ≥ 1.5 mm² Single cable lengths Signal inputs D1 D3 Max. 100m where A ≥ 1.5 mm² AC24 V triac outputs, Y1 Y4 Max. 100m where A ≥ 1.5 mm² AC24 V triac outputs, Y1 Y4 Max. 50 | | • | | |
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| Interfaces Cooling sequence + 1 damper actuator 3.5 VA) Interfaces Master/slave interface Proprietary Max. number of slaves 3 Cable connections Connection terminals for signals and power Stranded or solid conductors, 0.25, 2.5 mm ² Single cable lengths Signal inputs D1 D3 Max. 100 m with diameters ≥ 0.6 mm Measured value inputs B1 and B2 Max. 100m where A ≥ 1.5 mm ² AC24 V triac outputs, Y1 Y4 Max. 100m where A ≥ 1.5 mm ² AC24 V triac outputs, Y1 Y4 Max. 100m where A ≥ 1.5 mm ² AC24 V triac outputs, Y1 Y4 Max. 100m where A ≥ 1.5 mm ² Housing protection standard Protection standard to EN 60529 IP30 with terminal cover fitted and wall mounted without DIN rail IP20 for all other mounting arrangements Protection class Suitable for use in systems with protection class to r1I Transport Ambient conditions Operation Transport Class 3% to IEC 60721-3-3 Class 2% to IEC 60721-3-2 Temperature 050 °C -2565 °C Humidity < 45 % th | | Total nominal load | 1 | Max. 9.5 VA |
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| Protection class Suitable for use in systems with protection class I or II Ambient conditions Operation Transport Class 3K5 to IEC 60721-3-3 Industry standards Product safety Automatic electronic controls for household and similar use EN 60730-1 Special requirements for energy controllers EN 60730-2-11 Electromagnetic compatibility Interference immunity Interference immunity EN 50082-2 Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC | | | | |
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| Protection class Suitable for use in systems with protection class I or II Ambient conditions Operation Transport Class 3K5 to IEC 60721-3-3 Class 2K3 to IEC 60721-3-2 Temperature 0 50 °C - 25 65 °C Humidity < 85 % rh | | | | |
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| Class 3K5 to IEC 60721-3-3 Class 2K3 to IEC 60721-3-2 Temperature 050 °C - 2565 °C Humidity < 85 % rh | | Suitable for use in sy | | |
| Industry standards Temperature 0 50 °C - 25 65 °C Humidity < 85 % rh | Ambient conditions | 01 | • | • |
| Industry standards Humidity < 85 % rh | | | | |
| Industry standards Product safety Automatic electronic controls for household and similar use EN 60730-1 Special requirements for energy controllers EN 60730-2-11 Electromagnetic compatibility Interference immunity EN 50082-2 Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | • | | |
| Automatic electronic controls for household and similar use EN 60730-1 Special requirements for energy controllers EN 60730-2-11 Electromagnetic compatibility Interference immunity Interference immunity EN 50082-2 Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC | Industry standards | · | < 65 % 111 | < 95 /8 111 |
| household and similar use EN 60730-1 Special requirements for energy controllers EN 60730-2-11 Electromagnetic compatibility Interference immunity Interference immunity EN 50082-2 Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | industry standards | 5 | | |
| Special requirements for energy controllers EN 60730-2-11 Electromagnetic compatibility Interference immunity Interference immunity EN 50082-2 Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | | | EN 60720 1 |
| Electromagnetic compatibility Interference immunity EN 50082-2 Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | | | |
| Interference immunity EN 50082-2 Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | | | |
| Emitted interference EN 50081-1 Meets the requirements for CE marking: EMC Directive EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | | | EN 50082-2 |
| Meets the requirements for CE marking: EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | | | |
| EMC Directive 89/336/EEC Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | | | |
| Low Voltage Directive 73/23/EEC Dimensions See dimension diagrams | | | nundig. | 89/336/FEC |
| Dimensions See dimension diagrams | | | | |
| | Dimensions | | | |
| | | | | 0.59 kg |
| | | | , | |

RXA29.1



Measured value inputs

- B1 1 Measured value input for L&S Ni 1000 sensor or setpoint adjuster
- M 2 Measured value input ground
- B2 3 Measured value input for L&S Ni 1000 sensor or setpoint adjuster

Signal inputs

- D1 4 Signal input (window or clock)
- GND 5 Signal ground
- D2 6 Signal input (occupancy)
- D3 7 Changeover input

Triac outputs

- Y1 8 AC 24 V, 0.5 A switching output
- G 9 AC 24 V actuator supply
- Y2 10 AC 24 V, 0.5 A switching output
- Y3 11 AC 24 V, 0.5 A switching output
- G 12 AC 24 V actuator supply
- Y4 13 AC 24 V, 0.5 A switching output

Master / Slave interface

M/S+ 14/15 Master/slave connection

Power supply

- N 19 Neutral conductor
- L 21 Phase conductor AC 230 V +/- 10 %

Operator controls

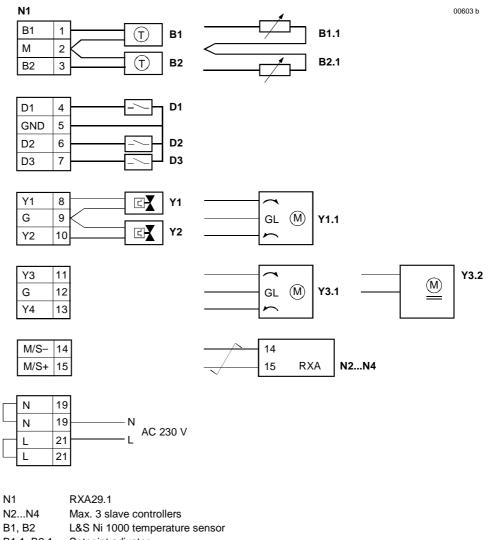
- S1...12 DIP switch for configuring the room controller.
- R1 Potentiometer for setpoint reset and test purposes.

STOP Caution!

Local installation regulations must be observed.

Connection diagrams

Connecting the field devices, room units and supply voltage



| B1.1, B2.1 | Setpoint adjuster | |
|------------|-------------------|--|

D1, D2 Volt-free contacts (window contact, occupancy sensor, central time switch etc.)

- D3 Changeover signal
- Y1, Y2 AC 24 V thermic valve actuators
- Y1.1, Y3.1 Valve actuator, AC 24 V, 3-position (RXA21.1 only)
- Y3.2 Damper actuator with spring return

Twisted pair

Note

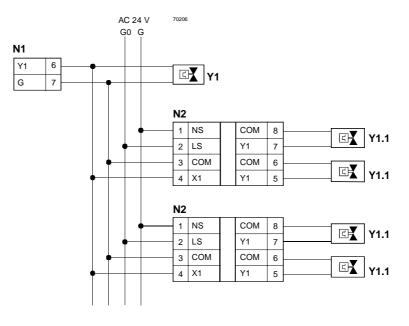
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For information on the compatibility of the various field devices with the RXA29.1 room controller, refer to the relevant application description.

Connecting a power amplifier

Parallel connection of a number of thermic valve actuators to output Y1 using the UA1T power amplifier.

The same principle applies to outputs Y2 \dots Y4. Note that the simultaneous load on outputs Y1 \dots Y4 must not exceed 9.5 VA (power consumption at input X1 of the UA1T: 0.5 VA)



- N1 RXA29.1
- N2 UA1T (see data sheet CA2N3591)
- Y1 AC 24 V thermic valve actuator

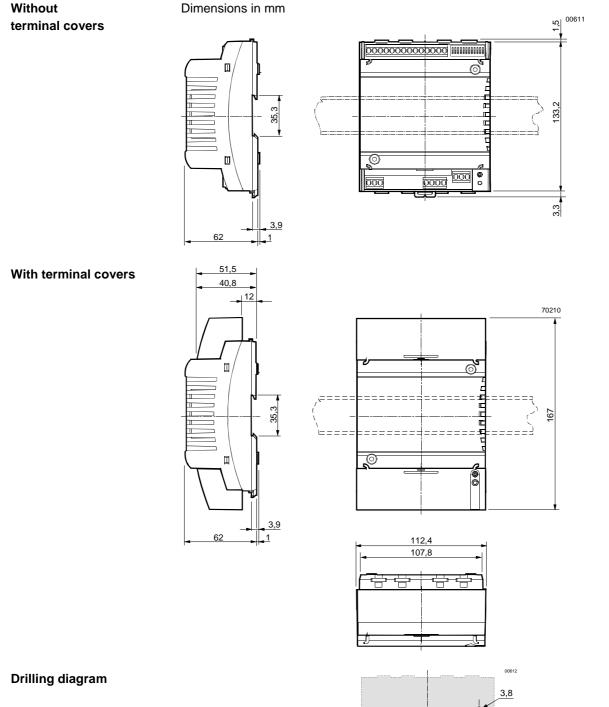
Y1.1 AC 24 V thermic valve actuator (max. 2 STE72 actuators per Y1 output on the UA1T)

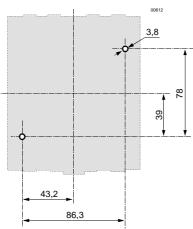
Notes

- The UA1T requires an AC 24 V supply voltage

- The UA1T is not suitable for the connection of 3-position actuators.

Dimensions





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Subject to technical alterations

Non-communicating room controllers RXA29.1