SIEMENS 1<sup>422</sup>





# Room thermostat with Auto RDE100.. Timer, Option External Input

for heating systems

- · Room temperature control
- · 2-position / TPI control with On/Off output for heating
- Optimum Start / Stop
- Comfort, Economy, Auto timer and Protection mode
- · Auto time switch
- Adjustable commissioning and control parameters
- Mains-powered AC 230 V (RDE100) or battery-powered DC 3 V (RDE100.1)
- Multifunction input (RDE100.1 only) for external floor sensor, keycard contact, etc.

# Use

The RDE100.. is used to control the room temperature in heating systems.

Typical applications:

- Apartments
- · Commercial spaces
- Schools

For the control of the following pieces of equipment:

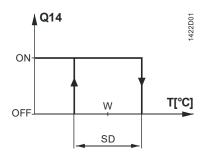
- Thermal valves or zone valves
- Gas or oil boilers
- Fans
- Pumps
- Floor Heating

- Room temperature control via built-in sensor or external input
- Selection of operating mode with operating mode touchkey
- Setting auto time switch (individual day, 7 day or 5-2 day)
- Display of current room temperature or setpoint in °C or °F
- Touchkey lock (manually)
- · Setpoint lock
- Periodic pump run
- Optimum start / stop
- Comfort temperature limitation by Economy setpoint locked
- · Reloading factory settings for commissioning and control parameters
- One multifunctional input (RDE100.1 only) freely selectable for:
  - Floor Heating temperature limitation function
  - Operating mode switchover contact (keycard, window contact, etc.)

# **Temperature control**

RDE100.. comprises of both 2-position and TPI temperature controls, which can be configured by parameter P78 (Control behavior).

2-position control algorithm is to switch on and off the heating system within a switching differential according to comparison between setpoint setting and the measured room temperature.



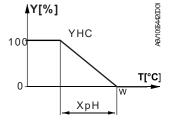
T Room temperature

SD Switching differential

W Room temperature setpoint

Q14 Output signal for heating

TPI (Time proportional Integral) control algorithm is to periodically switch on and off the heating system. The period time and pulse length of the control signal (PWM) are determined by the setpoint and the measured room temperature.



Heating mode

T Room temperature

Y Output signal for heating (PWM)

W Room temperature setpoint

YHC Control command "Valve"

XpH Proportional band "Heating"

# Floor heating limitation function (RDE100.1 only)

The factory setting for this function is Off (disabled) and must be set to "On" if floor heating is used.

The external floor temperature sensor is connected to input X1,  $\perp$  and acquires the floor temperature. If the floor temperature exceeds the parameterized

temperature limit xx  $^{\circ}$ C (P14 = 1, P15 = 1, P16 = xx  $^{\circ}$ C), the heating valve is fully closed until the floor temperature returns to a level below the parameterized limit. Typical application is rooms (dry floor).

If the application does not require floor heating temperature limitation but instead uses the external sensor as a source for both room temperature display and control, the parameters will have to be set as follows: P14 = 1, P15 = 0. A typical application is the bathroom (wet floor) where a constant floor temperature is required.

It is not recommended to have **only** an internal built-in room sensor for floor heating since there is a potential risk of overheating.

Typical application: Maximum temperature limitation for under floor heating systems

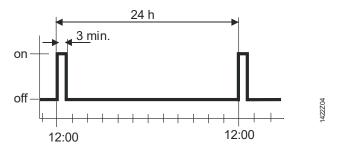
# Operating mode switchover function

This function allows keycard application, please refer to the section "Operating notes, Economy mode".

Can only be used when circulating pump or valve is controlled!

This function protects the pump or valve against seizing during longer off periods. Periodic pump run is activated for 3 minutes every 24 hours at 12:00.

Parameter	Pump status
P12 = 0 (Default)	Pump run off
P12 = 1	Pump run on



# **Optimum start control**

The purpose of optimum start control is to reach a temperature level 0.25 K below the Comfort setpoint when occupancy according to the time program starts in Auto timer mode. For that purpose, the heating circuit must be switched on at an earlier point in time. The extent of forward shift depends primarily on the outside temperature.

The maximum forward shift on time can be adjusted by parameter P89. A Forward shift on maximum "0" means the function is disabled.

Parameter	Range	Factory setting
Forward shift on max	0, 0.5,24 h	0
(P89)		

# **Optimum stop control**

Optimum stop control switches off the heating circuit at the earliest possible point in time so that the room temperature will lay 0.5 K below the Comfort setpoint when the time switch changes from Comfort mode to Economy mode in Auto timer mode. The early shut down maximum time can be adjusted by parameter P90. Early shut down maximum "0" means the function is disabled.

Parameter	Range	Factory setting
Early shutdown max	0, 0.5,6 h	0
(P90)		

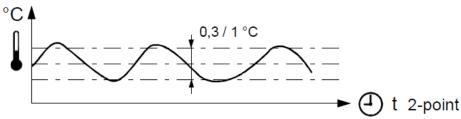
The new control algorithm of RDE100.. family offers a choice of control actions that can be configured via parameter **P78**. This means that optimum control can be selected for every type of application (factory setting "TPI slow").

# 2-position, 1 K

2-Position controller with 1 [K] switching hysteresis

# 2-position, 0.3 K

- 2-Position controller with 0.3 [K] switching hysteresis.
- For general control situations. Provides a better comfort than 1 [K] switching hysteresis.
- Can also be used for difficult control situations.



#### **TPI slow**

TPI control behavior for slow heating systems that require longer minimum On times and limited numbers of switching cycles per hour.

Typical applications:

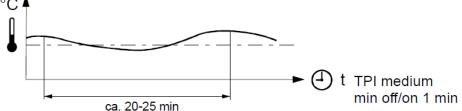
- Floor heating systems, oil fired boilers
- Can also be used for all other types of heating applications. (Alternative setting)

Minimum switching on / off time	> 4 minutes
Average period time	Approximately 20 minutes
°C 🛉	
n	
	→ 4 t TPI slow
<b>←</b>	min off/on 4 min
ca. 20 min	

# **TPI** medium

TPI control behavior for general heating applications such as radiator systems, thermal actuators, ...

Minimum switching on / off time	> 1 minute
Average period time	Approximately 20-25 minutes
°C <b>A</b>	



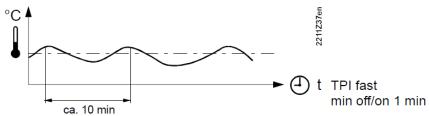
#### **TPI** fast

TPI control behavior for fast heating systems that tolerate a high number of switching cycles.

Typical applications: electric heaters, gas boilers, fast thermal actuators

Minimum switching on / off time	> 1 minute
Average period time	Approximately 10 minutes

⚠ Do not use TPI fast for oil boilers or electro mechanical actuators!



# Type summary

Product No.	Stock No.	Features	
RDE100	S55770-T278	Mains-powered AC 230 V	
RDE100.1	S55770-T279	Battery-powered DC 3 V	

# **Ordering**

- When ordering, please indicate product No. / stock No. and description.
- Example:

Product No.	Stock No.	Description
RDE100	S55770-T278	Room thermostat

Valve actuators/external sensor must be ordered separately.

Description		Product No.	Data Sheet *)	Use with the type of Temperature Control
Electromotoric actuator		SFA21	4863	2-Position & TPI slow
Electrothermal actuator (for radiator valves)	100000	STA321	A6V12986007	2-Position & All TPI
Electrothermal actuator (for small valves 2.5 mm)	ELANGES	STP321	A6V12986007	2-Position & All TPI
Damper actuator		GDB	4634	2-Position & TPI slow
Damper actuator	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GSD	4603	2-Position & TPI slow
Damper actuator	10 mm	GQD	4604	2-Position & TPI slow
Rotary damper actuator		GXD	4622	2-Position & TPI slow
Cable temperature sensor		QAH11.1	1840	N/A
Room temperature sensor	***	QAA32	1747	N/A

<sup>\*)</sup> The documents can be downloaded from  $\underline{\text{http://siemens.com/bt/download}}.$ 

Description	Product No.	Mounting Instruction *)
Adapter plate (for China 86 conduit box, BS4662 UK conduit box)	ARG70.5	A6V10563479

<sup>\*)</sup> The documents can be downloaded from  $\underline{\text{http://siemens.com/bt/download}}.$ 

# Mechanical design

The room thermostat consists 2 parts:

- Plastic housing which accommodates the electronics, the operating elements and the room temperature sensor
- · Mounting plate with screw terminals

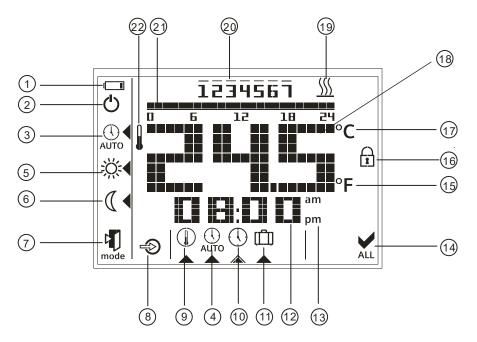
The housing engages in the mounting plate and is secured with a screw.

# **Operation and settings**



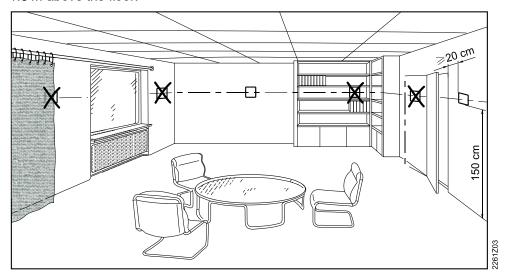
- 1) Operating mode touch key
- 2) Set
- 3) Ok
- 4) Touch key for decreasing a value
- 5) Touch key for increasing a value

# Display



#	Symbol	Description	#	Symbol	Description
1	( <u> </u>	Indicating that batteries need to be replaced (only with battery-powered version RDE100.1)	12	ICOL BED: DCD ICOL	Display of time
2	ტ	Protection mode (protection mode symbol can be enabled via parameter settings)	13	am pm	Morning: 12-hour format Afternoon: 12-hour format
3	. (1)	Auto timer mode	14	ALL	Confirmation
4	AUTO	View and set auto time switch	15	°F	Room temperature in degrees Fahrenheit
5	*	Comfort mode	16	ī	Touch key lock activated
6	$\mathbb{C}$	Economy mode	17	°C	Room temperature in degrees Celsius
7	mode	Escape	18	245	Display of room temperature, set point, etc.
8	€	External input enabled (RDE100.1 only)	19	<u>\$\$\$\$</u>	Heating On
9		Permanent set point setting	20	1234567	Weekday 1 = Monday 7 = Sunday
10	<b>(</b>	Day and time setting	21	1 6 12 1II 24	Timer bar
11	Ф	Holiday mode setting	22		Current room temperature

Do not mount the thermostat in niches or bookshelves, not behind curtains, not above or near heat sources, and not exposed to direct solar radiation. Mount about 1.5 m above the floor.



# Mounting



 Mount the thermostat in a clean and dry location without direct air flow from a heating/cooling equipment, and not exposed to drip or splash water
 Note: When RDE100.. is equipped with either China 86 conduit box or BS4662 UK conduit box, ARG70.5 adapter plate is suggested to provide a better fitting installation.

# Wiring















 $\triangle$ 

See Mounting Instructions M1429 enclosed with the thermostat.

- Ensure that wiring, protection and earthing comply with local regulations
- Correctly size the cables to the thermostat and the valve actuators
- Use only valve actuators rated for AC 24...230 V

#### Warning!

No internal line protection for supply lines to external consumers.

Risk of fire and injury due to short-circuits!

- Adapt the line diameters as per local regulations to the rated value of the installed overcurrent protection device
- The AC 230 V mains supply line must have a circuit breaker with a rated current of no more than 10 A
- Disconnect from power supply before removing the unit from its mounting plate
- External Inputs X1, ⊥ may carry mains potential. Sensor cables or window contact must carefully install before powering up the thermostat

#### Commissioning notes

#### Commissioning

After power is applied, the thermostat carries out a reset during which all LCD segments flash, indicating that the reset was made correctly. After the reset, the thermostat is ready for commissioning by qualified HVAC personnel.

The control parameters of the thermostat can be set to ensure optimum performance of the entire system. Please refer to Operating Instructions CB1B1422, section "Do you want to change parameters?".

#### Sensor calibration

If the temperature on the display does not agree with the room temperature effectively measured, the temperature sensor can be recalibrated. For that purpose, adjust parameter P04.

#### Setpoint lock

We recommend reviewing the setpoint lock (for public areas) in parameters P06 and P08 and changing them as needed. If the Economy setpoint is locked then the Comfort temperature setpoint can not be set lower than the locked Economy setpoint.

# Touchpad scanning rate

Since the thermostat uses touch technology and to minimize battery power consumption, a parameter P21 (adjustable from 0.25 to 1.5 seconds) is implemented for the user to adjust. This function is only valid for the battery-powered version and the default value is 1 second.

This means that when, for a certain time, the user does not touch the touchpad, the unit operates in power saving mode and the touchpad is running at a scanning rate of 1 second.

(From the calculation – assuming 4 operations per day on the thermostat, the estimated 1-second scanning rate results in a battery life of 1 year. If the user increases the scanning rate, the batteries' life is extended.)

#### X1 external input

Different parameter setting of X1 external input is described below:

Parameter P14=0 (No Input) is a default setting, which provides no external input function.

#### **Digital input**

An external contact can switch the thermostat from any operating mode to Economy.

Typical applications: Window contact

Key card application

Set parameter P14 = 2 (X1 External input = Digital Input) and adapt parameter P17 (Window contact = Normally Open / Closed) accordingly.

# External sensor (used for controlling)

The measured external sensor temperature is displayed and used for calculating heating demand instead of temperature detected by thermostat built-in internal sensor. In case of problems with the external sensor, the thermostat uses the internal sensor instead.

Typical applications: External room temperature sensor

Floor heating temperature control bath room

Setting parameter P14 = 1 (X1 External input = External Sensor) and parameter P15 = 0 (Temperature limitation = Off)

Notes for floor heating temperature control:

- External safety thermostat is needed to prevent overheating of certain floor heating systems!
- Use of "Comfort setpoint lock" function (Parameter P06) is recommended.

# External sensor for Floor heating application with temperature limitation

Refer to Floor Heating application section above when setting parameter P14 = 1 (X1 External input = External Sensor) and parameter P15 = 1 (Temperature limitation = On). Parameter P16 now allows to limit the maximum temperature.

# Change of batteries (only with batterypowered version RDE100.1)

If the battery symbol appears, the batteries are almost exhausted and should be replaced. Use alkaline batteries type AAA.

# **Operating notes**

The RDE100.. provides Comfort, Economy, Auto timer and Protection mode. The difference between Comfort and Economy mode is only the room temperature setpoint. The changeover between Comfort, Economy and Protection mode is made either automatically by the auto time switch or by pressing touchkey **mode**.

#### Comfort mode ☆

When Comfort mode is activated, symbol ★ appears on the display. The setpoint (20 °C) can be readjusted by pressing touchkeys + and –.

# Economy mode (C

When Economy mode is activated, symbol  $\mathbb{C}$  appears on the display. The setpoint (16 °C) can be readjusted by pressing touchkeys + and –.

In **RDE100.1**, a window contact feature is that a user can connect a window contact to the input X1,  $\perp$ . Depending on whether the window contact is configured to Normally Open or Normally Close (Parameter P14 = 2, Parameter P17 = 0 or 1), a change in this status will automatically switch the thermostat from any modes to Economy mode. This feature is good for public area. The factory setting for this function is Off (disabled).

# Protection mode (1)

If the temperature falls below 5 °C, the unit automatically activates the heating output. The symbol  $\circlearrowleft$  appears only, if the icon is enabled via parameter settings.

# Time switch (1)

When Auto timer mode is enabled, the changeover between the operating modes (Comfort and Economy mode) will take place automatically. There are three options for time switch setting: individual day, 7 day or 5-2 day. You can select Comfort or Economy mode in every 15 minutes interval of the day. The 0:00 to 24:00 hour time bar will allow you to set the mode throughout the selected day(s).

Default	Day/s	Comfort mode	Economy mode
value	Mo (1) – Fr (5)	6:00 – 8:00 hr	22:00 - 6:00 hr
		17:00 – 22:00 hr	8:00 – 17:00 hr
	Sa (6) – Su (7)	7:00 – 22:00 hr	22:00 – 7:00 hr

Please refer to Operating Instructions CB1B1422, section "Do you want to enter your own time switch?"

# Holiday mode 📋

When holiday mode is activated, symbol  $\square$  appears on the display. The set point (12 °C) and the number of days a user is away can be readjusted by pressing touch keys + and -.

#### **Parameters**

Changing the parameters by the following steps:

- Press + and simultaneously for 5 seconds
- Release them and parameter "P01" is displayed on the bottom segment
- Press + or to scroll to the parameter that needs to be adjusted
- Press **ok** to select this parameter
- Press + or to adjust the value
- Press ok to confirm the adjusted value
- Press mode to exit the parameters without saving or wait for the program to exit automatically

#### **Parameter list**

Parameter	Description	Setting range (default)	
<b>no.</b> P01	Time format	1 = 24:00 hours (default) 2 = 12:00 AM/PM	
P02	Selection of °C or °F	1 = °C (default) 2 = °F	
P03	Standard temperature display	1 = room temperature (default) 2 = setpoint	
P04	Temperature sensor calibration	-33 °C Step 0.5 °C (-66 °F, step 1 °F) Default: 0 °C	
P06	Comfort setpoint lock	0 = OFF (default) 1 = ON → locked according to setting in permanent temperature setpoint	
P08	Economy setpoint lock	0 = OFF (default) 1 = ON → locked according to setting in permanent temperature setpoint	
P09	Buzzer	0 = OFF 1 = ON (default)	
P10	Show frost protection icon	0 = OFF (default) 1 = ON	
P11	Time switch type for auto timer	0 = Individual Days (default) 1 = All 7 days 2 = 5/2 days	
P12	Periodic pump run	0 = OFF (default) 1 = ON	

P14	X1 External input (only for RDE100.1)	0 = No input 1 = External sensor———
	,	2 = Digital Input
P15	Temperature limitation (only for RDE100.1)	0 = OFF (default) ◀ 1 = ON
P16	Max limitation temperature for underfloor heating (only for RDE100.1)	2560 °C, step 1 °C or 77140 °F, step 1 °F Default: 30 °C
P17 →	Window contact features (only for RDE 100.1)	0 = Normally Open Contact (default) 1 = Normally Closed Contact
P21	Button scanning rate for the capacitive buttons (RDE100.1 only) Note: a shorter scanning rate means shorter battery life.	0.2 = 0.25 s 0.5 = 0.5 s 1.0 = 1.0 s (default) 1.5 = 1.5 s
P22	Reload factory settings	0 = OFF (default) 1 = reload
P23	Software version information	No adjustment possible
P78	Control behavior	0 = On/Off, 1.0 K 1 = On/Off, 0.3 K 2 = TPI fast 3 = TPI medium 4 = TPI slow (default)
P89	Forward shift on max	0, 0.5,24 h Default: 0 h
P90	Early shutdown max	0, 0.5,6 h Default: 0 h

The thermostats are maintenance-free.

#### **Disposal**



This symbol or any other national label indicate that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national legislation. For additional details, refer to <a href="https://www.siemens.com/bt/disposal">www.siemens.com/bt/disposal</a>.



# **▲** WARNING

Risk of explosion due to fire or short-circuit, even if the batteries are empty

Risk of injuries from by flying parts

- Do not allow the batteries to come into contact with water.
- Do not charge the batteries.
- Do not damage or destroy the batteries.
- Do not heat the batteries to more than 85 °C.



# **▲** WARNING

# Electrolyte leakage

Chemical burns

- Only grasp damaged batteries using suitable protective gloves.
- If electrolyte comes into contact with eyes, immediately rinse eyes with plenty of water. Consult a doctor.

# Observe the following:

- Only replace batteries with batteries of the same type and from the same manufacturer.
- Observe the polarities (+/-).
- The batteries must be new and free from damage.
- Do not mixed new batteries with used batteries.
- Store, transport, and dispose of the batteries in accordance with local regulations, guidelines, and laws.
   Also observe information from the battery manufacturer.

#### Warranty

The technical data given for these applications is valid only in conjunction with the Siemens actuators as detailed under «Equipment combinations», page 4. Use with third-party actuators invalidates any warranty offered by Siemens Building Technologies HVAC Products.

# Technical data

Power supply	Operating voltage	
Z Power Supply	<ul> <li>RDE100 at L - N</li> </ul>	AC 230 V +10/-15%
	Frequency	50 Hz
	Power consumption	8.5 VA / 1 W
	• RDE100.1	DC 3 V (2 x 1.5 V alkaline batteries AAA)
	For battery life (RDE100.1), see belonger	• • • • • • • • • • • • • • • • • • • •
		ne touchpad scanning rate during idle time eys per day with default TPI Slow control):
	Scanning rate 0.25 s	0.7 year battery life
	Scanning rate 0.50 s	1.0 year battery life
	Scanning rate 1.00 s	1.2 year battery life
	Scanning rate 1.50 s	1.3 year battery life
Control inputs	Control input Q11-Nx (Com)	
	<ul> <li>Rating RDE100</li> </ul>	(AC 24230 V) Max. 5(2) A Min. 8 mA
	<ul> <li>Rating RDE100.1</li> </ul>	(AC 24230 V) Max. 5(2) A Min. 8 mA
External sensor	External sensor	
(RDE100.1 only)	'X1' - '⊥' (Reference)	NTC3K/QAH11.1/QAA32
	Or	
	Digital On/Off	
	'X1' - '⊥' (Reference)	On/Off switch
Control outputs	Control output Q12-Nx (NC contact)	
	Rating RDE100	(AC 24230 V) Max. 5(2) A Min. 8 mA
	Rating RDE100.1	(AC 24230 V) Max. 5(2) A Min. 8 mA
	Control output Q14-Nx (NO contact)	
	Rating RDE100	(AC 24230 V) Max. 5(2) A Min. 8 mA
	Rating RDE100.1	(AC 24230 V) Max. 5(2) A Min. 8 mA
$\wedge$	No internal fuse.	
77	External preliminary protection with required under all circumstances.	max. C 10 A circuit breaker in the supply lines
	External protection for incoming cab	
	Circuit breaker	Max. 10 A
	Circuit breaker tripping characteristic	c Type B, C or D to EN 60898 and EN 60947
Function data	Comfort mode	20 °C (535 °C)
	Economy mode	16 °C (535 °C)
	Holiday mode	12 °C (535 °C) (Standalone)
	Built-in room temperature sensor	
	Setpoint setting range	535 °C (Comfort/Economy mode)
	Accuracy at 25 °C	< ±0.5 K
	Temperature calibration range	±3.0 K
	Resolution of settings and displays	
	Setpoints	0.5 °C
	Temperature value displays	0.5 °C

Fnv	ironme	ntal	cond	itions
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Operation	As per IEC 60721-3-3	
Climatic conditions	Class 3K5	
Temperature	050 °C	
Humidity	<95% r.h.	
Transport	As per IEC 60721-3-2	
Climatic conditions	Class 2K3	
Temperature	-2565 °C	
Humidity	<95% r.h.	
Mechanical conditions	Class 2M2	
Storage	As per IEC 60721-3-1	
Climatic conditions	Class 1K3	
Temperature	-2565 °C	
Humidity	<95% r.h.	
EU Conformity (CE)	A6V11399487 *)	
RCM conformity	A6V11399489 *)	
Safety class	II as per EN 60730-1, EN 60730-2-9	
Pollution class	II as per EN 60730-1	
Degree of protection of housing	IP30 as per EN 60529	
The product environmental declaration CF1F1420xx *) contains data on environ-		

Norms and standards

Environmental compatibility

The product environmental declaration CE1E1420xx \*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

eu.bac



Meets the requirements for eu.bac certification

See product list at: http://www.eubaccert.eu/licences-by-criteria.asp

RDE100.1 (license 217734, 217735)	Energy Effi- ciency Label	Control accuracy [K]
Water Heating System (thermal actuator, On/Off)	Α	0.5
Water Floor Heating Systems	-	0.6
(thermal actuator, On/Off)		

Eco design and labelling directives

Based on EU Regulation 813/2013 (Eco design directive) and 811/2013 (Labelling directive) concerning space heaters, combination heaters, the following classes apply:

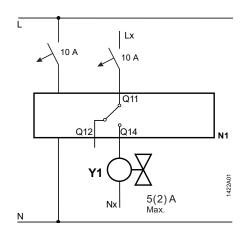
Application with On/Off operation Class I value 1% of a heater

TPI (PWM) room thermostat, for Class IV value 2% use with On/Off output heaters

General

Connection terminals for	Solid wires or prepared stranded wires 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup> (Min. 0.5 mm <sup>2</sup> )	
Weight	0.166 kg	
Color of housing front	RAL9003	

<sup>\*)</sup> The documents can be downloaded from <a href="http://siemens.com/bt/download">http://siemens.com/bt/download</a>.



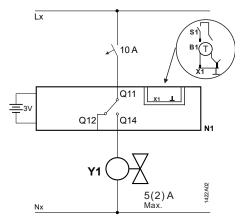
# **RDE100**

N1 Room thermostat

Y1 Valve actuator

L Live, AC 230 V

N Neutral conductor, AC 230 V



# **RDE100.1**

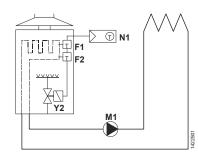
Lx Live, AC 24 ... 230 V
Q11, Q12 NC contact (for NO valves)
Q11, Q14 NO contact (for NC valves)
Nx Neutral conductor, AC 24...230 V

X1 External input signal

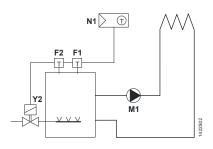
B1 Temperature sensor (Floor

temperature limit)

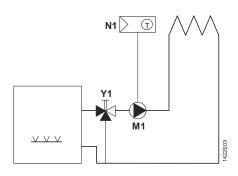
S1 Switch (keycard, window contact)



Room thermostat with direct control of a gas-fired wall-hung boiler



Room thermostat with direct control of a gas-fired floor-standing boiler

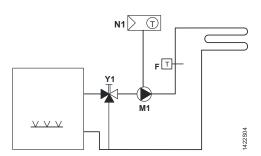


Room thermostat with direct control of a heating circuit pump (precontrol by manual mixing valve)

F1 Thermal reset limit thermostat

F2 Safety limit thermostat

M1 Circulating pump



Room thermostat with direct control of hydronic floor heating system

N1 RDE100.. room thermostat

Y1 Mixing 3-port valve with manual adjustment

Y2 Magnetic valve

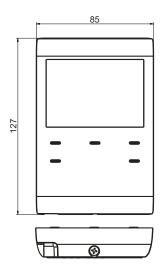
#### Remarks

# **Heating:**

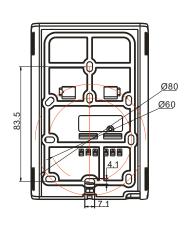
Because of the unavoidable self heating effects of the electrical current, any loads of more than 3 Amperes connected to the unit can influence the control behavior and temperature accuracy in a negative way.

# **Dimensions**

# All dimensions in mm







1422M01

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