# **SIEMENS**



RDF800/NF

# Touch screen flush-mount standalone room thermostats

For 2-pipe, 2-pipe with electrical heater, and 4-pipe fan coil units For universal applications

For use with compressors in DX type equipment

- Touch screen
- · Large display with backlight
- 2P / PI / P control
- Outputs for ON/OFF or 3-position control
- Outputs for 3-speed or 1-speed fan
- 2 multifunctional inputs for keycard contact, external sensor, etc.
- Independent function for window contact, presence detector (standard presence and hotel presence)
- Operating modes: Comfort, Economy and Protection
- Automatic or manual fan speed control
- · Automatic or manual heating / cooling changeover
- Minimum and maximum limitation of room temperature setpoint
- Control depending on the room or the return air temperature
- Adjustable commissioning and control parameters
- AC 230 V operating voltage
- RDF800: Mounting on round box, with min 60 mm diameter or recessed square 86 mm box with 60.3 mm fixing centers and min 40 mm depth
- RDF800/NF: Mounting on recessed square 86 mm box with 60.3 mm fixing centers and min 40 mm depth, requires additional mounting frame

Room temperature control (heating or cooling) in individual rooms and zones by means of:

- 2-pipe fan coil units
- 2-pipe fan coil units with electrical heater
- 4-pipe fan coil units
- Chilled /heated ceiling
- Chilled /heated ceiling and electrical heater
- Chilled ceiling and radiator / under floor heating
- · Compressors in DX-type equipment
- · Compressors in DX-type equipment with electrical heater

The room thermostats are delivered with a fixed set of applications. The relevant application is selected:

Local DIP switch and HMI

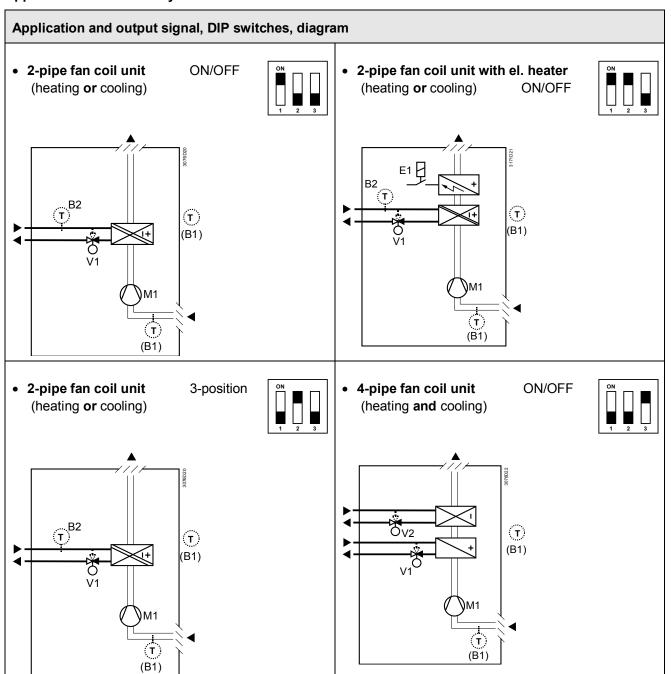
#### **Functions**

- Room temperature control via built-in temperature sensor or external room temperature / return air temperature sensor
- Changeover between heating and cooling mode (automatically via local sensor or manually)
- Selection of applications via DIP switches
- · Selection of operating mode via touch screen
- 1- or 3-speed fan control (automatically or manually)
- Display of current room temperature or setpoint in °C and/or °F
- Minimum and maximum limitation of room temperature setpoint
- Keylock function: unlock, total lock and setpoint
- 2 multifunctional inputs, freely selectable for:
  - External room temperature or return air temperature sensor
  - Sensor for automatic heating / cooling changeover (RDF...)
  - Window contact
  - Dew point sensor (RDF...)
  - Electric heater enable (RDF...)
  - Fault input
  - Presence detector
- Advanced fan control function, such as: fan kick, fan start delay, and selectable fan operation (enable, disable or depending on heating or cooling mode)
- Purge function together with 2-port valve in a 2-pipe changeover system
- Reminder to clean fan filters (adjust with P62)
- Floor heating temperature limitation
- Reload factory settings for commissioning and control parameters
- Wizard function for easy commissioning via HMI

Note: The functional descriptions for the thermostat can be referred to the basic documentation P3174.

# **Applications**

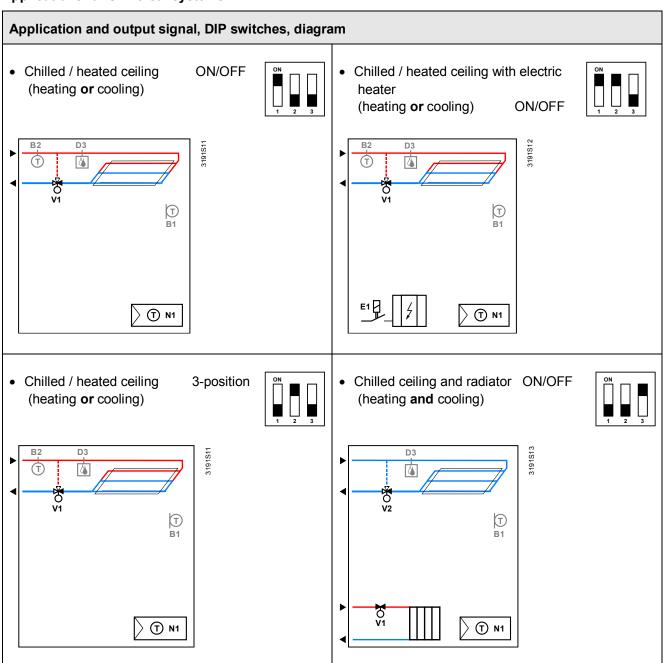
The thermostats support the following applications, which can be configured using the DIP switches on the inner side of the thermostat's front panel.



- V1 Heating or heating / cooling valve actuator
- V2 Cooling valve actuator
- E1 Electric heater

- B1 Return air temperature sensor or external room temperature sensor (optional)
- B2 Changeover sensor (optional)
- M1 3- or 1-speed fan

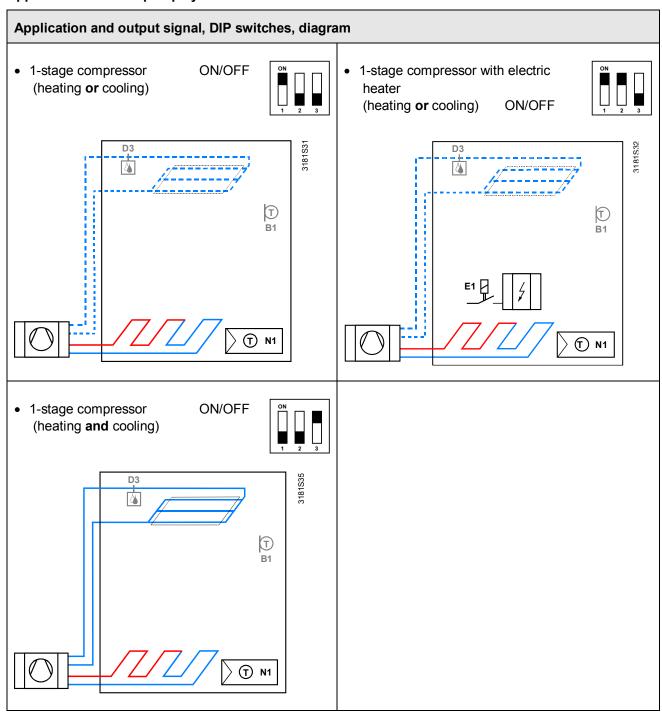
# **Applications for Universal systems**



- V1 Heating or heating / cooling valve actuator
- V2 Cooling valve actuator
- E1 Electric heater

- B1 Return air temperature sensor or external room temperature sensor (optional)
- B2 Changeover sensor (optional)
- D3 Dewpoint sensor

# Applications for heat pump systems



- N1 Thermostat
- E1 Electric heater

- B1 Return air temperature sensor or external room temperature sensor (optional)
- D3 Dewpoint sensor

Product no.	Stock no.	Application	Operating voltage	Control outputs			Suitable for	
				voitage	3-pos	ON/OFF		101
RDF800	S55770-T396	Fan coil,	AC 230 V	1 <sup>1)</sup>	2 <sup>1)</sup>		Round or	
		universal					square	
		heat pump					conduit	
							boxes	
RDF800/NF	S55770-T397	Fan coil,	AC 230 V	1 <sup>1)</sup>	2 <sup>1)</sup>		Square	
2)		universal					conduit	
		heat pump					boxes 2)	

<sup>1)</sup> Selectable: ON/OFF or 3-position according to applications.

#### **Ordering**

- When ordering, indicate the product number, SSN and name.
   For example: RDF800/NF (S55770-T397) room thermostat
   RDF800 (S55770-T396) room thermostat
- A mounting frame must be ordered for RDF800/NF installation (See "Accessories").
- Order valve actuators separately.

# **Equipment combinations**

Type of unit		Product no.	Data sheet
Cable temperature sensor or changeover sensor, cable length 2.5 m NTC (3 kΩ at 25 °C)	<b>O</b> "	QAH11.1	1840
Room temperature sensor NTC (3 kΩ at 25 °C)		QAA32	1747
Cable temperature sensor, cable length 4 m NTC (3 kΩ at 25 °C)	0,	QAP1030/UFH	1854
Condensation / Dew point monitor		QXA2601 / QXA2602 / QXA2603 / AQX2604	3302
Electromotoric ON/OFF actuator		SFA21	4863
Electromotoric ON/OFF valve and actuator (only available in AP, UAE, SA and IN)		MVI/MXI	4867
Zone valve actuators (only available in AP, UAE, SA and IN)	4	SUA	4832
Thermal actuator (for radiator valve)	JÜ.	STA23	4884
Thermal actuator (for small valves 2.5 mm)	0	STP23	4884

ON/OFF actuators

Mounting frames are not included and must be ordered separately. See "Accessories"

# 3-position actuators

	Product no.	Data sheet
	SS A 3 1	4893
2 -2	33A31	4093
	CCD21	4864
3	33731	4004
	SSB24	4904
6/6/	33B31	4891
	66634	4005
3	33031	4895
	CCD24	1961
(a)	35D31	4861
	SAS31	4581
		SSA31  SSP31  SSB31  SSC31  SSD31

Note:

For the maximal number of actuators in parallel, refer to information in the data sheets of the selected actuators and to this list, depending on which value is lower:

- Parallel operation of max 6 SS... actuators (3-pos) is possible.
- Parallel operation of max 10 ON/OFF actuators is possible.

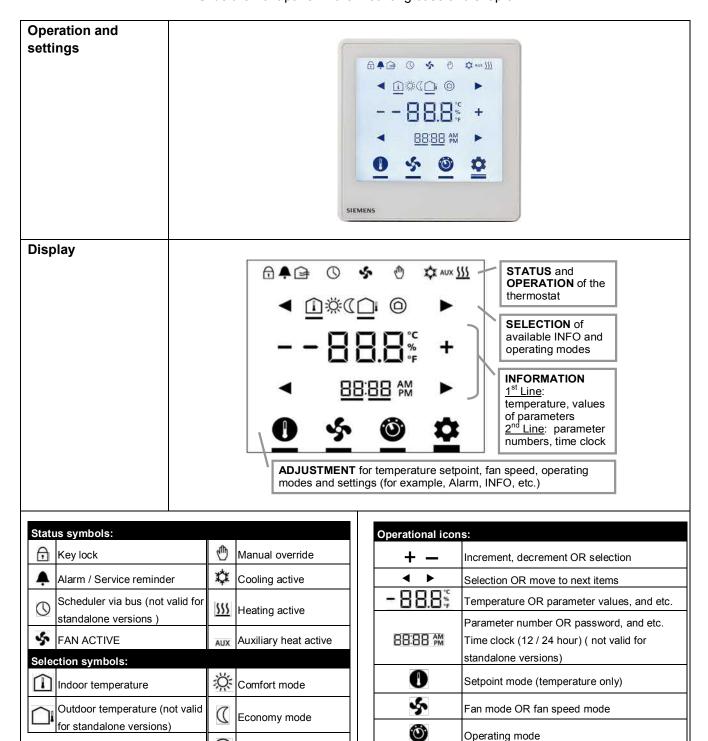
#### **Accessories**

Designation	Product no. / SSN	Data sheet
Changeover mounting kit (50 pcs / package)	ARG86.3	N3009
Single mounting frame, Ivory White (for RDF800/NF only)	ARG800.1 / S55770-T370	

The thermostats consist of the following parts:

- Front panel with electronics, operating elements and built-in room temperature sensor.
- Mounting base with power electronics.
- Additional mounting frame is required for RDF800/NF to complete the installation while RDF800 unit comes with its own mounting frame.

The rear of the mounting base contains the screw terminals. Slide the front panel in the mounting base and snap on.



Protection mode

Touch screen flush-mount standalone room thermostats

Setting mode

Operations	Function
Touch ①	to select setpoint mode; adjust temperature value using +/
Touch 5	to select fan mode; adjust fan speed using +/
Touch 🚳	to select operating mode; select ON/ECO/OFF using +/
Touch 🌣	to select the INFO screen, display room using <a>d / ▶</a> if available.
	to select the desired H/C control sequence using +/- if manual H/C changeover (P01 = 2) is selected.
	to display alarms if the ♣icon is displayed; use <a>/▶ icon to select different alarms for viewing.</a>
Touch for 5 seconds	to select parameter mode (Service/Expert level).

Wake up the thermostat by touching the screen display.

#### **Entering the Service** level

Factory setting for the Service level password is **00 00**.

1. Touch and hold down the \$\frac{\partial}{2}\$ icon for 5 seconds. Then set the first 2-digit number to **00** using **◄/▶**.



Touch the last 2-digit number and set it to **00** using **◄** 



3. After 3 seconds, **P** (successful login) or **F** (fail to login) is displayed.



4. If the login failed, reenter the correct password as per step 1 above. After successful login, the first parameter is displayed as shown in the following example:



Notes:

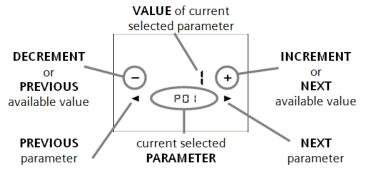
- Touch any icon to exit.
- Touch **◄/►** to select any parameter and **+/–** to adjust values.
- When reaching END, touch END to exit.

# **Entering the Expert** level

Follow the same steps for entering the Expert level. Factory setting for Expert level password is 99 99.

#### **Configuring parameters**

After entering the correct password, the screen displays as follows. Touch ◄/▶ to advance or return to the desired parameter and use +/- to select the desired available value.



#### **Resetting parameters**

The factory setting for the control parameters can be reloaded using P71, by setting the value to **ON**.

# Service level parameters

	Name	Factory setting	Range		
Parameter	Service level			RDF800	Dependencies
P01	Control sequence	2-pipe: 1 = cooling only 4-pipe: 4 = heating and cooling	0 = heating only 1 = cooling only 2 = H/C changeover manual 3 = H/C changeover auto 4 = heating and cooling	<b>✓</b>	
P02	Operation using room op selector	1	1 = Comfort – Protection 2 = Comfort - Economy – Protection	<b>✓</b>	
P04	Unit	0	0 = °C 1 = °F	✓	
P05	Measured value correction (for built-in/external sensor)	0 K	– 5+5 K	<b>√</b>	
P06	Standard display	0	0 = room temperature 1 = setpoint	✓	
P08	Comfort basic setpoint	21 °C	540 °C	✓	
P09	Comfort setpoint minimum	5 °C	540 °C	✓	
P10	Comfort setpoint maximum	35 °C	540 °C	✓	
P11	Economy heating setpoint	15 °C	OFF, 5WCoolEco; WCoolEco = 40 °C max.	✓	
P12	Economy cooling setpoint	30 °C	OFF, WHeatEco40 °C; WHeatEco = 5 °C min.	✓	
P13	Electric heater when cooling	ON	ON: Enabled OFF: Disabled	✓	
P14	"Screen lock" function	0	0: Unlock 1: Lock 2: Setpoint adjustable	<b>✓</b>	
P15	Fan stage in dead zone (Comfort)	0	0 = disabled 1 = low speed (Heat and Cool) 2 = low speed (Cooling only)	<b>√</b>	
P16	Buzzer function	ON	ON: Enabled OFF: Disabled	✓	

**Note:** Parameter display depends on the selected application and function.

# Expert level parameters with diagnostics and test

Parameter	Name  Expert level	Factory setting	Range	RDF800	Dependencies
P30	Heat P-band Xp/switching differential	2 K	0.56 K	<b>√</b>	
P31	Cool P-band Xp/switching differential	1 K	0.56 K	<b>√</b>	
P33	Dead zone Comfort mode	2 K	0.55 K	<b>√</b>	Appl.
P34	Setpoint differential	2 K	0.55 K	✓	Appl.

	Name	Factory setting	Range		v
Parameter				RDF800	Dependencies
DOE	Expert level	45 min	0. 400 min		D40
P35 P36	Integral action time Tn  H/C changeover switching point cooling	45 min 16 °C	0120 min 1025 °C	✓ ✓	P46 P38, P40
P37	H/C changeover switching point heating	28 °C	2740 °C	<b>√</b>	P38, P40
P38	Input X1	3 = window contact	0 = (no function) 1 = room temp ext. sensor/ return air temp (AI) 2 = H/C changeover (AI/DI) 3 = window contact (DI) 4 = dew point sensor (DI) 5 = enable electric heater (DI) 6 = fault input (DI)		P40
P39	Normal position input X1	0 (NO.)	10 = presence detector (DI)  0 = NO. (Normally Open)  1 = NC. (Normally Closed)	✓	P38
P40	Input X2	1 = ext. sensor	0 = (no function) 1 = room temp ext. sensor/ return air temp (AI) 2 = H/C changeover (AI/DI) 3 = window contact (DI) 4 = dew point sensor (DI) 5 = enable electric heater (DI) 6 = fault input (DI) 10 = presence detector (DI)	*	P38
P41	Normal position input X2	0 (NO.)	0 = NO. (Normally Open) 1 = NC. (Normally Closed)	<b>√</b>	P40
P44	Actuator running time Y1/Y2	150 s	20300 s	<b>√</b>	P46
P45	Power of electric heater on Y2 (for adaptive temperature compensation	0.0 kW	0.01.2 kW	<b>*</b>	
P46	Output Y1/Y2	ON/OFF (1)	0 = 3-position 1 = ON/OFF	✓	Appl.
P48	ON time minimum 2-pos output	1 min.	120 min	<b>√</b>	P46
P49	OFF time minimum 2-pos output	1 min.	120 min	✓	
P50	Purge time	OFF	OFF: Not active 15 min: Active with selected duration	<b>*</b>	P38,
P51	Flow temp limit floor heating	OFF	OFF, 1050 °C	<b>√</b>	P38, P40
P52	Fan control	1	0 = disabled 1 = enabled 2 = heating only 3 = cooling only	<b>*</b>	
P53	Fan speeds	3-speed	1 = 1-speed 2 = 3-speed	✓	P52
P54	Fan overrun time	60 s	0360 s	<b>√</b>	P52, Appl.
P55	Fan speed switching point high	100%	80100%	<b>√</b>	P52, P53
P56	Fan speed switching point med	65%	3075%		P52, P53
P57	Fan speed switching point low	10%	115%	<b>√</b>	P52, P53
P58	Fan kick start	ON	ON: Enabled OFF: Disabled	✓	P52
P59	On time minimum fan	2 min	16 min	✓	P52

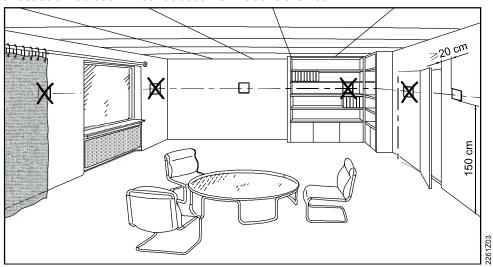
Parameter	Name  Expert level	Factory setting	Range	RDF800	Dependencies
P60	Periodic fan kick Comfort	OFF	089 min, OFF(90)	✓	P52
P61	Periodic fan kick Eco	OFF	0359 min, OFF(360)	✓	P52
P62	Service filter	OFF (0)	OFF, 1009900 h	✓	P52
P65	Protection heating setpoint	8 °C	OFF, 5WCoolProt; WCoolProt = 40 °C max.	<b>√</b>	
P66	Protection cooling setpoint	OFF	OFF, WHeatProt 40; WHeatProt = 5°C min.	<b>√</b>	
P67	Fan start delay	0 s	0360 s	✓	P52, P46
P69	Temporary Comfort setpoint	OFF	OFF = disabled ON = enabled	<b>√</b>	
P71	Restore factory setting	OFF	OFF = disabled ON = reload start	<b>√</b>	
P77	Presence Detector Mode	1: Standard Presence Mode	1: Standard Presence Mode 2: Hotel Presence Mode	✓	P38, P40

Appl. = applications

Parameter	Name  Diagnostics and test	Range	RDF800	Dependencies
d01	Application number	NONE = (no application) 2P = 2-pipe 2P3P = 2-pipe 3-position 2PEH = 2-pipe with electric heater 4P = 4-pipe	<b>√</b>	
d02	X1 state	0 = not activated (for DI) 1 = activated (DI) 049 °C = current temp. value (for AI) 00 \$\frac{1}{4}\$ = H/C input shorted 100 \$\frac{1}{2}\$ = H/C input open	<b>√</b>	
d03	X2 state	0 = not activated (for DI) 1 = activated (DI) 049 °C = current temp. value (for AI) 00 \$\frac{1}{4}\$ = H/C input shorted 100 \$\frac{5}{5}\$ = H/C input open	<b>✓</b>	
d05	Test mode for checking the Y1/Y2 actuator's running direction <sup>3)</sup>	"" = no signal on outputs Y1 and Y2 OPE = output Y1 forced opening CLO = output Y2 forced closing	<b>✓</b>	P46
d07	Software version	Ux.xx	✓	

This parameter can only be quit when the setting is back at "---"
Press buttons + and – simultaneously to escape.

Mount the room thermostat on a conduit box. Do not mount on a wall in niches or between bookshelves, behind curtains, above or near heat sources, or exposed to direct solar radiation. Mount about 1.5 m above the floor.



# Mounting / Dismounting /!\

- Do not apply excessive force on screws! The deformation of the mounting frame may lead to improper connections and operation of the unit.
- Mount the room thermostat on a clean, dry indoor place without direct airflow from a heating / cooling device, and not expose to drips or splashes water.
- In case of limited space in the conduit box, use the mounting spacer ARG70.3 to increase the headroom by 10mm.
- Before removing the front cover, disconnect the power supply.

Wiring

See the User Manual for the installation instructions enclosed with the thermostat.

#### A

#### **WARNING**

Wire, protect and earth in compliance with local regulations.

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 an external circuit breaker with a rated current of no more than 10 A.
- The maximum current loading (including fan and valves) is 10 A.
- Use only valve actuators rated for AC 230 V.
- Disconnect from supply before removing the unit from its mounting plate.
- Do not connect more than one fan coil unit to the Qs output of the thermostat.
- Do not connect terminal Y1 or Y2 to either L or N.
- Do not use terminal Y1 or Y2 as AC 230 V power supply.
- Use cables with min 230 V insulation for both SELV inputs X1-M / X2-M since the conduit box carries AC 230 V mains voltage.
- Several switches (e.g. window contact) may be connected in parallel for both inputs X1-M / X2-M. However, overall maximum contact sensing current for switch rating must be considered.





## Before power up

Set DIP switches to select the desired application before power up:

Commissioning method	DIP switches	LCD display	Applications
Local setup	ON 1 2 3	APP 2P	2-pipe
	ON 1 2 3	APP 2PEH	2-pipe with electric heater
	ON 123	APP 4P	4-pipe
	ON 1 2 3	APP 2P3P	2-pipe with 3-position output

After DIP switch setting, complete the installation and power up the thermostat.

Notes:

Other DIP switch position will have no effect, i.e. NONE will be shown on LCD display when the unit is powered up if selected .

As soon as the application is changed, the thermostat reloads the factory setting for all control parameters.

#### **Wizard**

After DIP switches are selected and the thermostat is powered up, the wizard function guides users to configure the basic parameters for normal operation according to the table below.

Touch ◀ / ▶ to advance / return to any parameter;

Touch + / - to change value.

LCD displa	ıy	Parameter	Range	Factory setting
-     PD:	+	Control sequence	0: Heating only 1: Cooling only 2: Manual changeover 3: Auto changeover 4: Heating and Cooling	2-pipe = 1 4-pipe = 4
- (	+	User operating mode profile	1: comfort > protection 2: comfort > economy > protection	1
- D	+	Selection of °C or °F	0: °C 1: °F	0
- D	+	Standard display	0: Room temperature 1: Setpoint	0
- □   <b>-</b> PiS	+	Fan Stage in Deadzone (Comfort mode)	0: Fan OFF 1: Fan speed 1 Heat / Cool 2: Fan speed 1 Cool only	0
- 3 	+	Functionality of X1	0: No function 1: Ext / Return Temp (AI) 2: H/C changeover (AI/DI) 3: Window open detect (DI)	3
-     <b>-</b>   P40	+	Functionality of X2	4: Dew point sensor (DI) 5: Enable electr. Heater (DI) 6: Fault input (DI) 10: Presence detection (DI)	1

LC	D displa	ay	Parameter	Range	Factory setting
	Π <b>0</b>	+	Operating action of X1	Normal Open (NO) Normal Close (NC)	Normal Open (NO)
-	П <u>П</u>	+	Operating action of X2		
•	EUA		-	End of wizard	-

If more details are required about parameters, refer to basic documentation P3174.

#### Reset

To re-load the factory settings for all parameters, set the parameter P71 to **ON**. Restart the thermostat after reset. All LCD segments flash, indicating that the reset is correct.

3 seconds later, the thermostat is ready for commissioning by qualified HVAC staff.

Compressor-based application

• When the thermostat is used with a compressor, adjust the minimum output ontime (parameter P48) and off-time (parameter P49) for Y1 / Y2 to avoid damaging the compressor or shortening its life due to frequent switching.

Calibrate sensor

• Recalibrate the temperature sensor if the room temperature displayed on the thermostat does not match the room temperature measured (after min. 1 hour of operation). To do this, change parameter P05.

Setpoint and range limitation

• We recommend to review the setpoints and setpoint ranges (parameters P08...P12) and change them as needed to achieve maximum comfort and save energy.

Notes: The functional descriptions for the thermostat can be referred to basic documentation (P3174).

# Room temperature out of range

When the room temperature is out of the measuring range (that is, above 49 °C or below 0 °C), - - - will be displayed.

In addition, the heating output is activated if the current setpoint is not set to "OFF", the thermostat is in heating mode and the temperature is below 0 °C.

For all other cases, no output is activated.

The thermostat resumes Comfort mode after the temperature returns to the measuring range.

The following pages can be displayed by touching the **?** icon, depending on priority: alarm/service reminder, manual H/C changeover, basic Information about room.

# Alarm/Service reminder

If any alarm is displayed ( ♣), touch the 🏩 icon to check the alarm or service reminder.

If there is more than one alarm, use **◄/▶** to browse through all active alarms.



The following table describes the detail information for all alarms and services.

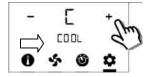
Alarm/service	Display	Error code	Туре
Condensation	Con	4930	Fault
Ext fault input 1	AL1	9001	Fault
Ext fault input 2	AL2	9002	Fault
Clean filter reminder (+/- to remove reminder)	FIL	3911	Service
Internal sensor error	Er1		Fault
EEPROM error	Er2		Fault
Floor heating sensor error	Er3		Fault

# Heating/cooling manual changeover

If manual heating/cooling changeover is set using P01 = 2, touch the 🍄 icon once or twice (depending on the alarms) to select heating or cooling mode.

The selected control sequence will start in three seconds.





#### **Disposal**



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

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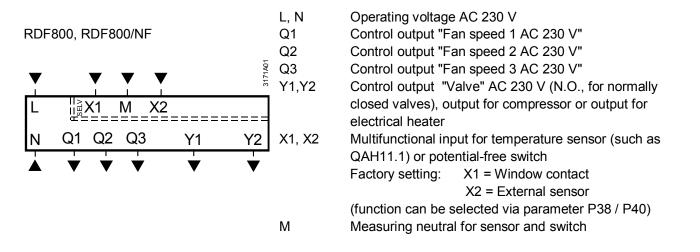
#### Technical data

Technical data					
Power supply  Caution	Rated voltage Overvoltage category Frequency Power consumption No internal fuse!	AC 230 V III 50/60 Hz Max. 6.0 VA / 2.1 W			
_	External preliminary protection with max C 10 A circuit breaker required in all cases.				
Outputs	Fan control Q1, Q2, Q3-N Rating min, max resistive (inductive)	AC 230 V Min. 5 mA, Max. 5(2) A			
Note!	Fans must NOT be connected in parallel!  Connect one fan directly, for additional fans, one relay for each speed.				
•	Control output Y1-N / Y2-N (NO) Rating Min, Max resistive (inductive) Max. total load current through terminal "L" (Qx+Yx	AC 230 V Min. 5 mA, Max. 5(2) A ) Max. 7 A			
Caution 🗥	No internal fuse! External preliminary protection with max C 10 A circuit breakers in the supply line required in all cases.				
Inputs	Multifunctional input X1-M / X2-M Temperature sensor input: Type Temperature range Cable length Digital input: Operating action Contact sensing Parallel connection of several thermostats for one switch Insulation against mains voltage (SELV) Function of inputs: External temperature sensor, heating/cooling changeover sensor, window contact, presence detection, dewpoint monitor contact	See "Equipment combinations" 049 °C Max. 80 m  Selectable (NO / NC) SELV DC 05 V / Max. 5 mA  for Max. 20 thermostats per switch 4 kV, reinforced insulation Selectable X1: P38 X2: P40			
Operational data	Switching differential, adjustable Heating mode (P3) Cooling mode (P3) Setpoint setting and range Comfort (P0) Economy (P11-P1) Protection (P65-P6) Multifunctional input X1/X2 Input X1 default value (P3) Input X2 default value (P4)	1) 1 K (0.56K)  21 °C (540 °C) 15 °C / 30°C (OFF, 540 °C) 8 °C / OFF (OFF, 540 °C) Selectable 08, 10 8) 3 (Window contact)			

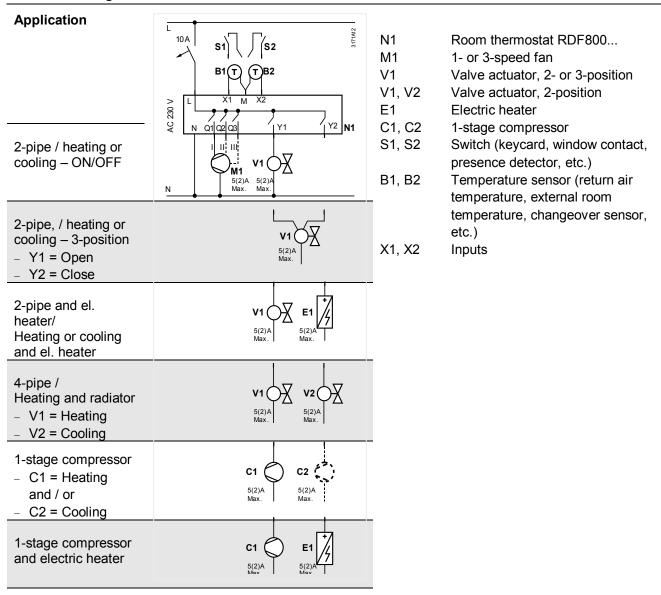
	Built-in room temperature sensor				
	Measuring range	049 °C			
	Accuracy at 25 °C	< ± 0.5 K			
	Temperature calibration range	± 3.0 K			
	Settings and display resolution				
	Setpoints	0.5 °C			
	Current temperature value displayed	0.5 °C			
Environmental	Operation	As per IEC 60721-3-3			
conditions	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.			
Standards and	EU Conformity (CE)	A6V11174840 <sup>*)</sup>			
directives	RCM conformity to EMC emission standard	A6V11174927 <sup>*)</sup>			
	Safety class	II as per EN 60730			
	Pollution class	Normal			
	Degree of protection of housing	IP 30 as per EN 60529			
Environmental	The product environmental declaration A6V1117169	0 <sup>*)</sup> contains data on			
compatibility	environmentally compatible product design and asse				
	materials composition, packaging, environmental benefit, disposal).				
General	Connection terminals	Solid wires or prepared			
		stranded wires			
		1 x 0.41.5 mm <sup>2</sup>			
	Minimal wiring cross section on	Min 1.5 mm <sup>2</sup>			
	L, N, Q1, Q2, Q3, Y1, Y2				
	Housing front color	Ivory White			
	Weight without / with packaging	0.155 kg / 0.255 kg			

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

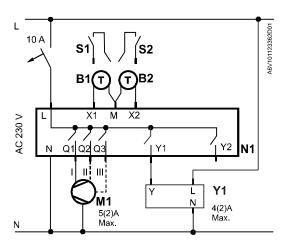
#### **Connection terminals**



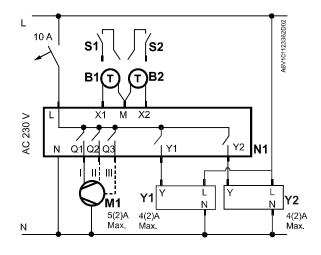
## **Connection diagrams**



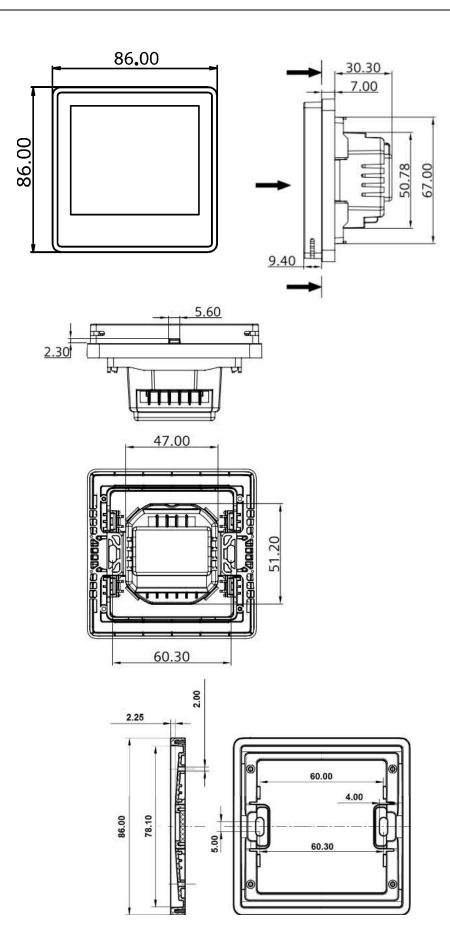
Example1: With SUA21/3 2-pipe fan coil application



Example2: With SUA21/3 4-pipe fan coil application

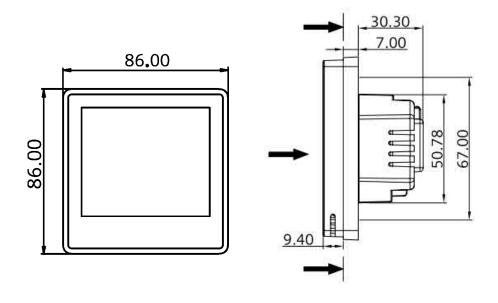


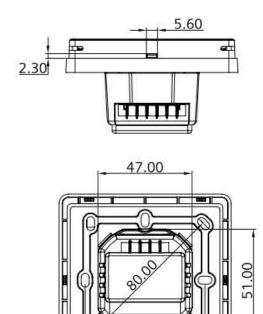
RDF800/NF for square conduit boxes only



ARG800.1 Single Mounting Frame for RDF800/NF

# RDF800 for round conduit boxes





60.00

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