SIEMENS



RDF800 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



- 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	Control outputs		s Suitable for
			voltage	3-pos	ON/OFF	101
RDF800	S55770-T396	Fan coil, universal heat pump	AC 230 V	1 1)	2 ¹⁾	Round or square conduit boxes
RDF800/NF 2)	S55770-T397	Fan coil, universal heat pump	AC 230 V	1 ¹⁾	2 ¹⁾	Square conduit boxes ²⁾

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

²⁾ Mounting frames are not included and must be ordered separately. See "Accessories"

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 k Ω at 25 °C)	, O''	QAH11.1	1840
	Room temperature sensor NTC (3 k Ω at 25 °C)		QAA32	1747
	Cable temperature sensor, cable length 4 m NTC (3 k Ω at 25 °C)	, O'	QAP1030/UFH	1854
	Condensation / Dew point monitor		QXA2601 / QXA2602 / QXA2603 / AQX2604	3302
ON/OFF actuators	Electromotoric ON/OFF actuator		SFA21	4863
	Electromotoric ON/OFF valve and actuator (only available in AP, UAE, SA and IN)		MVI/MXI	A6V11251892
	Zone valve actuators (only available in AP, UAE, SA and IN)	-	SUA	4832
	Thermal actuator (for radiator valve)		STA23	4884
	Thermal actuator (for small valves 2.5 mm)	J	STP23	4884

3-position actuators	Type of unit		Product no.	Data sheet
	Electrical actuator, 3-position (for radiator valve)	95	SSA31	4893
	Electrical actuator, 3-position (for small valve 2.5 mm)		SSP31	4864
	Electrical actuator, 3-position (for small valve 5.5 mm)	00	SSB31	4891
	Electrical actuator, 3-position (for 2- and 3-port valves / VP45)	*	SSC31	4895
	Electrical actuator, 3-position (for small valve 5.5 mm)		SSD31	4861
	Electromotoric actuator, 3-position (for small valves 5.5 mm)		SAS31	4581

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.



Operations	Function
Touch	to select setpoint mode; adjust temperature value using +/
Touch 🐓	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 ▶ if available.</td
	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 Icon to select different alarms for viewing.
Touch 🍄 for 5 seconds	to select parameter mode (Service/Expert level).



			-		
	Name	Factory setting	Range		es
Parameter				RDF800	Dependencies
Para	Service level			RDF	Dep
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	~	
P02	Operation using room op selector	1	1 = Comfort – Protection 2 = Comfort - Economy – Protection	~	
P04	Unit	0	0 = °C 1 = °F	✓	
P05	Measured value correction (for built- in/external sensor)	0 K	– 5+5 K	~	
P06	Standard display	0	0 = room temperature 1 = setpoint	✓	
P08	Comfort basic setpoint	21 °C	540 °C	\checkmark	
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	¥	
P15	Fan stage in dead zone (Comfort)	0	0 = disabled 1 = low speed (Heat and Cool) 2 = low speed (Cooling only)	~	
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	~	
P31	Cool P-band Xp/switching differential	1 K	0.56 K	~	
P33	Dead zone Comfort mode	2 K	0.55 K	~	Appl.
P34	Setpoint differential	2 K	0.55 K	~	Appl. *)

	Name	Factory setting	Range		es
Parameter				RDF800.	Dependencies
	Expert level				
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	~	P38, P40
P38	Input X1	3 = window contact	0 = (no function) 1 = room temp ext. sensor/ return air temp (AI) 2 = H/C changeover (Al/DI) 3 = window contact (DI) 4 = dew point sensor (DI) 5 = enable electric heater (DI) 6 = fault input (DI) 10 = presence detector (DI)	×	P40
P39	Normal position input X1	0 (NO.)	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)	1	P38
P41	Normal position input X2	0 (NO.)	0 = NO. (Normally Open) 1 = NC. (Normally Closed)	~	P40
P44	Actuator running time Y1/Y2	150 s	20300 s	×	P46
P45	Power of electric heater on Y2 (for adaptive temperature compensation	0.0 kW	0.01.2 kW	~	
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	×	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	~	P38,
P51	Flow temp limit floor heating	OFF	OFF, 1050 °C	~	P38, P40
P52	Fan control	1	0 = disabled 1 = enabled 2 = heating only 3 = cooling only	*	
P53	Fan speeds	3-speed	1 = 1-speed 2 = 3-speed	✓	P52
P54	Fan overrun time	60 s	0360 s	✓	P52, Appl.
P55	Fan speed switching point high	100%	80100%	×	P52, P53
P56	Fan speed switching point med	65%	3075%	×	P52, P53
P57	Fan speed switching point low	10%	115%	~	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.	~	
P66	Protection cooling setpoint	OFF	OFF, WHeatProt 40; WHeatProt = 5°C min.	✓	
P67	Fan start delay	0 s	0360 s	~	P52, P46
P69	Temporary Comfort setpoint	OFF	OFF = disabled ON = enabled	~	
P71	Restore factory setting	OFF	OFF = disabled ON = reload start	~	
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	~	
d02	X1 state	0 = not activated (for DI) 1 = activated (DI) 049 °C = current temp. value (for AI) 00 4 = H/C input shorted 100 5 = H/C input open	~	
d03	X2 state	0 = not activated (for DI) 1 = activated (DI) 049 °C = current temp. value (for AI) 00 4 = H/C input shorted 100 5 = H/C input open	×	
d05	Test mode for checking the Y1/Y2 actuator's running direction ³⁾	"" = no signal on outputs Y1 and Y2 OPE = output Y1 forced opening CLO = output Y2 forced closing	~	P46
d07	Software version	Ux.xx	~	

³⁾ 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.

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.

Commissioning notes

Before power up

Wizard

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

Commissioning method	DIP switches	LCD display	Applications
	ON 1 2 3	APP 2P	2-pipe
Local setup	ON 1 2 3	APP 2PEH	2-pipe with electric heater
	ON 1 2 3	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.

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 display	Parameter	Range	Factory setting
- { + PD1 ►	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
- []+ ∢ РСЧ ►	Selection of °C or °F	0: °C 1: °F	0
- 🚺 +	Standard display	0: Room temperature 1: Setpoint	0
- □ +	Fan Stage in Deadzone (Comfort mode)	0: Fan OFF 1: Fan speed 1 Heat / Cool 2: Fan speed 1 Cool only	0
- ∃+ 	Functionality of X1	0: No function 1: Ext / Return Temp (AI) 2: H/C changeover (AI/DI) 3: Window open detect (DI)	3
- { +	Functionality of X2	4: Dew point sensor (DI) 5: Enable electr. Heater (DI) 6: Fault input (DI) 10: Presence detection (DI)	1

	LCD display	Parameter	Range	Factory setting
	- ∏∏ + ≺ P33 ►	Operating action of X1	Normal Open (NO)	Normal Open (NO)
	- ∏0 + ≺ P41 ►	Operating action of X2	Normal Close (NC)	
	Interpretation of the second seco	-	End of wizard	-
	If more details are re	equired about paran	neters, refer to basic docum	entation P3174.
Reset	Restart the thermost is correct.	at after reset. All LC	rameters, set the parameter CD segments flash, indicatir for commissioning by quali	ig that the reset
Compressor-based application	 When the thermostat is used with a compressor, adjust the minimum output on- time (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 P08P12) and change them as needed to achieve maximum comfort and save energy.			
Notes:	The functional descr documentation (P317	•	nostat can be referred to ba	sic

Operation

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 (\clubsuit), touch the \clubsuit 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 4 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 device is considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

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

Technical data

A Power supply		Rated voltage		AC 230 V	
		Overvoltage category		III	
		Frequency		50/60 Hz	
		Power consumption		Max. 6.0 VA / 2.1 W	
	Caution 🖄	No internal fuse!			
		External preliminary protection with ma	x C 10 A circuit	breaker required in all cases.	
Outputs		Fan control Q1, Q2, Q3-N		AC 230 V	
		Rating min, max resistive (inductive)		Min. 5 mA, Max. 5(2) A	
STOP 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)	AC 230 V		
		Rating Min, Max resistive (inductive)		Min. 5 mA, Max. 5(2) A	
		Max. total load current through termina	l "L" (Qx+Yx)	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.		breakers in the supply line	
Inputs		Multifunctional input X1-M / X2-M			
		Temperature sensor input:			
		Туре		See "Equipment combinations"	
		Temperature range	049 °C		
		Cable length	Max. 80 m		
		Digital input:			
		Operating action	Selectable (NO / NC)		
		Contact sensing		SELV DC 05 V / Max. 5 mA	
		Parallel connection of several t	Max. 20 thermostats per		
		one switch	switch		
		Insulation against mains voltag	4 kV, reinforced insulation		
		Function of inputs:	Selectable		
		External temperature sensor, heating	X1: P38		
		changeover sensor, window contact	X2: P40		
		detection, dewpoint monitor contact			
		electrical heater contact, fault conta			
Operational data		Switching differential, adjustable			
		Heating mode	(P30)	2 K (0.56K)	
		Cooling mode	(P31)	1 K (0.56K)	
		Setpoint setting and range			
		☆ Comfort	(P08)	21 °C (540 °C)	
			(P11-P12)	15 °C / 30°C (OFF, 540 °C)	
			,	8 °C / OFF (OFF, 540 °C)	
		Protection	(P65-P66)	Selectable 0 8 10	
		Multifunctional input X1/X2	(000)	Selectable 08, 10	
		Input X1 default value	(P38) (P40)	3 (Window contact)	
		Input X2 default value	(P40)	1 (External temperature	
				sensor)	

	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	Storage	As per IEC 60721-3-1	
conditions	Climatic conditions	Class 1K3	
	Transport	As per IEC 60721-3-2	
	Climatic conditions	Class 2K3	
	Operation	As per IEC 60721-3-3	
	Climatic conditions	Class 3K5 ¹⁾	
Standards and	EU Conformity (CE)	A6V11174840*)	
directives	RCM conformity to EMC emission standard	A6V11174927*)	
	Safety class	II as per EN 60730	
	Pollution class	Normal	
	Degree of protection of housing	IP 30 as per EN 60529	
	Housing flammability class according to UL94	V-0	
Environmental	The product environmental declaration A6V11171	690*) contains data on	
compatibility	environmentally compatible product design and assessments (RoHS compliance,		
	materials composition, packaging, environmental l	penefit, disposal).	
General	Connection terminals	Solid wires or prepared	
		stranded wires	
		1 x 0.4…1.5 mm²	
	Minimal wiring cross section on	Min 1.5 mm ²	
	L, N, Q1, Q2, Q3, Y1, Y2		
	Housing front color	Ivory White	
	Weight without / with packaging	0.155 kg / 0.255 kg	
	*) The documents can be downloaded from <u>http://siemens.com/bt/download</u> .		
	¹⁾ No condensation is allowed.		

Connection terminals



Operating voltage AC 230 V
Control output "Fan speed 1 AC 230 V"
Control output "Fan speed 2 AC 230 V"
Control output "Fan speed 3 AC 230 V"
Control output "Valve" AC 230 V (N.O., for normally
closed valves), output for compressor or output for
electrical heater
Multifunctional input for temperature sensor (such as
QAH11.1) or potential-free switch
Factory setting: X1 = Window contact
X2 = External sensor
(function can be selected via parameter P38 / P40)
Measuring neutral for sensor and switch

Μ

Connection diagrams



- Room thermostat RDF800...
- 1- or 3-speed fan
- Valve actuator, 2- or 3-position
- V1, V2 Valve actuator, 2-position
 - Electric heater
- C1, C2 1-stage compressor
- S1, S2 Switch (keycard, window contact, presence detector, etc.)
 - 2 Temperature sensor (return air temperature, external room temperature, changeover sensor, etc.)
- X1, X2 Inputs

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



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









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