



Wireless RF Thermostat Datasheet

18 models. RF thermostat and receiver pairs for buildings where a control cable cannot be run.

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Focused on thermostats since	2011
Compliance	RoHS, CE, UL, FCC, CSA, CCC, ISO 9001

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Why buyers specify this category

- 868.35 MHz band, away from crowded 2.4 GHz WiFi traffic
- Range up to 200 m in open terrain on several models
- Wall mount or base mount room units
- Receiver contacts from 6(2)A up to 16A for electric radiators

Problems it solves

- Cable routes blocked by finished walls and floors
- Room units fixed in poor sensing positions because that is where the cable ended
- Short range links failing across large or multi-storey buildings

Models

230V Color LCD Screen Non-programmable Wireless Room RF Smart Gas Boiler Thermostat for Floor Heating NTC

Wireless Thermostat, 230V Wireless Thermostat, Gas Boiler Thermostat, Underfloor Heating Thermostat, Non-Programmable Thermostat

E3RF-L is a wireless RF room thermostat and receiver pair for gas boiler and floor heating systems where running a cable to the boiler is not practical. The transmitter sits in the room and the receiver wires at the appliance, communicating on 868.35 MHz over a range of up to 100 m. Frost protection cuts in at +7 C, and the receiver contact is rated 6(2)A at 230V.



Key benefits

- No control cable between the room and the boiler, which saves chasing walls in a retrofit
- 868.35 MHz band is less congested than 2.4 GHz, so the link is not affected by WiFi traffic
- +7 C defrost temperature protects pipework when the system is switched off
- Colour LCD with white, blue or orange backlight options

Model	E3RF-L
Programmability	Non-programmable
Power Supply	230VAC, 50HZ
Switchable Voltage	24 V AC / DC,...250 V AC; 50 Hz
Switchable Current	6 A (2 A inductive load)
Maximum Load	6(2)A, 230V Defrosting Temperature +7°C
Temperature Range	5°C-35°C in 0.5°C
Setpoint Range	10°C-30°C in 0.5°C Power Consumption 6W Operating
Display accuracy	±1°C (at 20°C)
Sensor	NTC
Screen	Digital LCD
Backlight	>> HEAT(Heating)/COOL(Cooling)/OFF(Frost Protection) >> Wall mounted >>
Material	Anti-flammable PC +ABS
Operating Frequency	868.35MHZ
Transmission Distance	approx. 100m in open terrain
Consumption	6W

230VAC DC Dial Adjustable Wireless Non-programmable Gas Boiler RF Thermostat for Heating

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Gas Boiler Thermostat, Non-Programmable Thermostat

ST2403RF pairs a dial adjusted room unit with a 230VAC receiver, linked on 868.35 MHz with a range of up to 200 m. It is the wireless answer for hotels and indoor installations where guests should be able to change the temperature with one control and nothing else. Measuring runs 0 C to 40 C in 0.1 C steps, the setpoint covers 5 C to 35 C in 0.5 C steps, and the receiver switches 6(2)A at 230V.



Key benefits

- Up to 200 m RF range covers large buildings and detached plant rooms
- Dial adjustment means guests do not need to read a manual
- No control cable, so rooms can be refitted without disturbing finishes
- 0.1 C measuring resolution behind a deliberately simple front panel

Model	ST2403RF
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Programmability	Non-Programmable
Power Supply	230VAC, 50HZ
Switchable Voltage	24 V AC / DC,...250 V AC; 50 Hz
Switchable Current	6 A (2 A inductive load)
Maximum Load	6(2)A, 230V
Temperature Range	0°C-40°C in 0.1°C
Setpoint Range	5°C-35°C in 0.5°C Power Consumption 6W Operating
Display accuracy	±1°C (at 20°C)
Screen	Digital LCD
Color	White
Material	ABS
Dimension	120 x77 x28 mm
Operating Frequency	868.35MHZ
Transmission Distance	approx. 200m in open terrain
Consumption	6W

1 to 4 Wireless Heating and Cooling Remotely Control Room Gas Boiler RF Thermostat

Wireless Thermostat, 230V Wireless Thermostat, Gas Boiler Thermostat, Underfloor Heating Thermostat, Programmable Thermostat

C7RF is built for multi-zone heating where each room needs its own pattern but the plant room has one appliance. A single control handles up to four zones, independently or together, over an 868.35 MHz RF link with a range of up to 200 m. Programming runs 7 day with six time and six temperature settings per day, which is enough resolution for a hotel floor or a house with very different room uses.

Key benefits

- Up to 4 zones from one control, so the plant room stays simple
- Six time and six temperature steps per day handle irregular occupancy
- Zones run independently or together, depending on how the building is used
- 200 m RF range covers a hotel floor or a large house without repeaters



Model	C7RF 1 to 4
Programmability	7 Day Programmable, 6 Time & 6 Temp per day
Power Supply	230VAC, 50HZ
Switchable Voltage	24 V AC / DC,...250 V AC; 50 Hz
Switchable Current	6 A (2 A inductive load)
Maximum Load	6(2)A, 230V
Temperature Range	5°C-35°C in 0.5°C
Setpoint Range	10°C-30°C in 0.5°C Power Consumption 6W Operating
Display accuracy	±1°C (at 20°C)
Color	White
Material	Anti-flammable PC +ABS
Dimension	130 x 80 x 35 mm
Operating Frequency	868.35MHZ
Transmission Distance	approx. 200m in open terrain

Consumption	6W
Application	Hotel

Wireless Gas Boiler Thermostat For Electric Radiator

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Gas Boiler Thermostat, Non-Programmable Thermostat

ST2401RF is the version of our RF pair built for electric radiators, where the switched load is much higher than a boiler relay. The receiver is offered at 6A or 16A on 230V AC, so a direct electric heater can be switched without an external contactor. The room unit runs from 2 x AAA 1.5V lithium batteries, carries a Heat / Off / Cool switch, a low battery indicator and a Fahrenheit or Celsius display option.



Key benefits

- 16A receiver option switches electric radiators directly, with no contactor to house
- Battery powered room unit can be sited anywhere without a supply
- Low battery indicator warns before the room loses control
- F or C display makes the same product suitable for several export markets

Model	ST2401RF
Programmability	Non-Programmable
System Switch	HEAT/OFF/COOL MODE Switch
Power Supply	2 x AAA 1.5V Lithium batteries
Switchable Voltage	24 V AC / DC,...250 V AC; 50 Hz
Switchable Current	6 A (2 A inductive load)/16A
Temperature Range	0°C-40°C in 0.1°C
Setpoint Range	5°C-35°C in 0.5°C
Display accuracy	±1°C (at 20°C)
Backlight	Orange/White/Blue/Customied
Material	ABS
Dimension	120 x 77 x 28 mm (without holder)
Installation	Wall mounted Operating
Operating Frequency	868.35MHZ
Application	Hotel
Type	Air Conditioning/Heating/HVAC Systems/Radiator/Ventilation/Cooling/Noise and Attenuation/Other/Cooling

230V Heating Room Wireless RF Gas Boiler Thermostat

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Gas Boiler Thermostat, Non-Programmable Thermostat

S2301RF is a wireless room thermostat aimed at home and office heating where the appliance is not near the living space. It communicates on 868.35 MHz, which the specification describes as giving more stable communication than lower frequency links, and offers Heating, Cooling and Frost modes with an AUTO/MANUAL switch. An LED on the receiver shows system status at a glance during commissioning.



Key benefits

- 868.35 MHz link chosen for communication stability rather than headline range
- AUTO/MANUAL switch lets an occupant override without losing the setting
- LED system indicator shortens fault finding on a service visit
- Wall mount or base mount, so the room unit can sit on a desk or shelf

Model	S2301RF
Programmability	Non-Programmable
System Switch	Heating/Cooling/Frost
Power Supply	230V AC >>
Switchable Voltage	230 V AC; 50 Hz
Switchable Current	6 A (2 A inductive load)
Contact rating	6(2)A 230VAC Max
Temperature Range	0°C-40°C in 0.1°C
Setpoint Range	5°C-35°C in 0.5°C Power Consumption 6W Operating
Display accuracy	±1°C (at 20°C)
Backlight	Orange/Blue/White
Dimension	118 x 80 x 26 mm(without holder)
Operating Frequency	868.35 MHz
Transmission Distance	approx. 50 m in open terrain Defrosting Temperature +7°C
Consumption	6W
Application	Home Office

Household Usage Wall RF Wireless Gas Boiler Thermostat

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Gas Boiler Thermostat, Non-Programmable Thermostat

This is the household configuration of ST2401RF, supplied with an 8(2)A 230VAC receiver for gas boiler and water heating systems. The room unit runs from 2 x AAA 1.5V lithium batteries and links to the receiver on 868.35 MHz, so no control cable crosses the house. Defrost protection engages at +7 C, and the housing is fire retardant ABS and PC with white, blue or green backlight options.



Key benefits

- 8(2)A contact leaves headroom over the 6A receivers used on lighter duties
- No control cable between the living room and the boiler cupboard
- +7 C defrost protection covers holiday absences
- Built by a team with more than 10 years of room thermostat design experience

Model	ST2401RF
Programmability	Non-Programmable
System Switch	HEAT/OFF/COOL MODE Switch
Power Supply	2 x AAA 1.5V Lithium batteries
Switchable Voltage	230 V AC; 50 Hz
Switchable Current	8 A (2 A inductive load)
Maximum Load	8(2)A 230VAC Max Defrosting Temperature +7°C Operating Principle Gas Boiler or Water Heating
Temperature Range	0°C-40°C in 0.1°C
Setpoint Range	5°C-35°C in 0.5°C Power Consumption 6W Operating
Display accuracy	±1°C (at 20°C)
Backlight	White/Blue/Green
Material	ABS+PC Fire Retardant
Operating Frequency	868.35 MHz
Consumption	6W

Application	Hotel/Household Heating Systems
Type	Air Conditioning/Heating/HVAC Systems/Radiator/Ventilation/Cooling/Noise and Attenuation/Other/Heating&Cooling;

RF Remotely Control Non-Programmable Wireless Heating Air Conditioner Room Thermostat 230V

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Underfloor Heating Thermostat, Non-Programmable Thermostat

ST2601RF is a wireless dial thermostat for heating, air conditioning and underfloor heating where the appliance is out of reach of a cable. The link carries up to 200 m and the receiver switches 6(2)A at 230V. Like the wired ST2601 it uses a large dial adjustable button, with HEAT, COOL and OFF frost protection and an adjustable switching sensitivity for slow responding systems.



Key benefits

- 200 m wireless range covers large properties without repeaters
- Large dial keeps operation to a single action
- Adjustable switching sensitivity suits underfloor heating
- Calibration of -3 to +3 C fixes a poor mounting position

Model	ST2601RF
Programmability	Non-Programmable
Power Supply	DC 2 x AAA 1.5V Alkaline batteries
Switchable Voltage	24 V AC / DC,...250 V AC; 50 Hz
Switchable Current	6 A (2 A inductive load)
Maximum Load	6(2)A, 230V
Temperature Range	0°C-40°C in 0.1°C
Setpoint Range	5°C-35°C in 0.5°C Power Consumption 6W Operating
Display accuracy	±1°C (at 20°C)
Screen	Digital LCD
Backlight	Blue/White
Color	White
Material	Anti-flammable PC +ABS
Dimension	130 x86 x30 mm
Operating Frequency	868.35MHZ
Transmission Distance	approx. 200m in open terrain

24 V AC General Electric Wireless Air Conditioner Thermostat

Wireless Thermostat, 24V Wireless Thermostat, Air Conditioner Thermostats, Non-Programmable Thermostat

STN731W is a wired PTAC thermostat supplied with its own base module, aimed at hotel rooms running packaged terminal air conditioners. It is universal across 2 heat and 1 cool heat pump systems and 1 heat and 1 cool conventional systems, keeps separate B and O terminals, and enforces heating and cooling setpoint limits. Power consumption is 2W from 24 V AC or batteries.

Key benefits

- Supplied as a thermostat and base module set, so a PTAC room is one order line
- Universal across heat pump and conventional PTAC equipment
- Setpoint limits stop guests running the unit outside its design range
- Separate heating and cooling swing adjustment tunes cycle rate per mode



Model	STN731W
Programmability	Non-programmable
Stages	1 HEAT & 1COOL
Power Supply	24 VAC or Batteries Power
Switchable Voltage	24 V AC & Batteries
Load rating	1 amp per terminal, 1.5 amp maximum all terminal combined
Temperature Range	32■ to 99■ (1■ to 40■)
Setpoint Range	44■ to 90■ (7■ to 32■) Power Consumption 2W
Display accuracy	±1°C (at 20°C)
Sensor	NTC
Backlight	Blue/Green/White/Orange
Material	PC+ABS (Fireproof)
Dimension	120 x 98 x 28 MM
Installation	Mounts on wall or junction box Display 4.5 sq.Inch Operating ambient 32■ to +105■ (1■ to +41■)
Consumption	2W
Operating Humidity	90% non-condensing maximum

Energy-Saving 230V Wireless RF Non-programmable Thermostat For Temperature Control

Wireless Thermostat, 230V Wireless Thermostat, Non-Programmable Thermostat

ST2603RF is the wireless version of the ST2603 dial thermostat, for rooms where a cable to the appliance is not available and the occupant should have one control and nothing else. It detects and displays room temperature on a large LCD, offers heating, cooling and frost protection, and lets the installer adjust switching sensitivity to suit the heating system.

Key benefits

- Dial operation with no cable run to the appliance
- Detects and displays room temperature, so the occupant can see the actual value
- Frost protection alongside heating and cooling
- Adjustable switching sensitivity for slow responding systems



Model	ST2603
Backlight	White/Blue/
Material	Flame-resistant ABS
Weight	400g
Package Included	1Wireless Thermostat 1Instruction

868 Mhz Wireless Non-Programmable Heating Smart RF Room Thermostat for Air Conditioning Temperature Control

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Non-Programmable Thermostat

This configuration of ST2601RF is aimed at air conditioning temperature control, using an 868 MHz wireless link between the room unit and the receiver at the plant. It is non-programmable with a large dial, detects and displays room temperature, and covers heating, cooling and frost protection. The housing is flame resistant ABS with white, blue or green backlighting.

Key benefits

- 868 MHz link chosen for communication stability in buildings
- One dial for the occupant, with configuration hidden in the installer menu
- Room temperature displayed as well as the setpoint
- Frost protection for spaces left unoccupied



Model	ST2601
Backlight	White/Blue/
Material	Flame-resistant ABS
Weight	400g
Package Included	1Wireless Thermostat 1Instruction

230V New Production Wireless Gas Boiler Home Usage Digital Heating Non-programmable RF Thermostat

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Gas Boiler Thermostat, Underfloor Heating Thermostat, Non-Programmable Thermostat

This configuration of ST2403RF is the wireless underfloor variant: the LCD shows room temperature, set temperature and floor temperature together, over an 868 MHz link chosen for more stable communication. It is non-programmable with a HEAT / OFF / COOL mode switch, and is designed to work with almost all standard electric underfloor heating systems as well as gas boilers and radiators.

Key benefits

- Floor temperature displayed on a wireless room unit, which is uncommon
- 868 MHz link for more stable communication in buildings
- Designed for almost all standard electric underfloor heating systems
- Covers air conditioning, heating, HVAC, radiator and ventilation duties



Model	ST2403
Backlight	White/
Material	Flame Retardance ABS+
Weight	400g
Type	Air Conditioning/Heating/HVAC Systems/ Radiator / Ventilation /
Package Included	1Wireless Thermostat 1Instruction

230V Wireless Non-programmable Smart Heating RF HVAC Thermostat for Gas Boilers

Wireless Thermostat, 230V Wireless Thermostat, Gas Boiler Thermostat, Non-Programmable Thermostat

This configuration of ST2401RF is the general purpose wireless gas boiler control. Its distinguishing feature is the interface: the display provides interactive feedback while the user sets up or operates the unit, and the installation menu is written to be read rather than decoded. It is non-programmable, wall mounted, with a large LCD in blue or orange backlight.

Key benefits

- Interactive interface guides the user through setup and operation
- Installation menu written in plain terms, which shortens commissioning
- Large LCD screen readable across a room
- No control cable between the room and the boiler



Model	ST2401
Backlight	Blue/
Material	Anti-flammable PC+ABS
Weight	400g
Package Included	1Wireless Thermostat 1Instruction

Affordable Wall Mounted Heating And Cooling Room Temperature Calibration Adjustment Non-Programmable Wireless Thermostat

Wireless Thermostat, 24V Wireless Thermostat, PTAC Thermostat, Programmable Thermostat, Non-Programmable Thermostat

STN731RF is the wireless version of our PTAC control, for hotel rooms where running a cable from the wall position to the through-wall unit is awkward. It is universal across 2 heat 1 cool heat pump and 1 heat 1 cool conventional equipment, non-programmable, and enforces heating and cooling setpoint limits so guests stay inside the range the operator sets.

Key benefits

- Wireless link removes the cable run to a through-wall PTAC unit
- Setpoint limits keep guest adjustment inside the operator's range
- Universal across heat pump and conventional PTAC equipment
- Universal sub-base mounts on a wall or a junction box



Model	STN731
Color	White/Blue/
Material	PP
Weight	400g
Package Included	1Wireless Thermostat 1

24V Programmable 2Heat 2Cool Wireless Thermostat STN715RF

Wireless Thermostat, 24V Wireless Thermostat, PTAC Thermostat, Programmable Thermostat, Non-Programmable Thermostat

STN715RF is the wireless multi stage thermostat in the PTAC range, controlling 2 heat and 2 cool with no cable between the room position and the equipment. Programming can be set to 7 day, 5/1/1 or non-programmable, and heating and cooling setpoint limits cap what an occupant can select. It mounts on a wall or a junction box using the universal sub-base.

Key benefits

- 2 heat and 2 cool staging over a wireless link, which is unusual in this class
- Setpoint limits cap occupant adjustment on a wireless unit
- Three programme modes from one part number
- Universal sub-base mounts on a wall or a junction box



Model	STN715
Programmability	7 Day,5/1/1 or
Color	White/Blue/
Material	PP
Weight	400g
Package Included	1Wireless Thermostat 1

HVAC RF Wireless Non-programmable Room Thermostats for Gas Boiler

Wireless Thermostat, 230V Wireless Thermostat, Gas Boiler Thermostat, Non-Programmable Thermostat

S2305RF is the wireless version of the S2305 manual thermostat, for gas boiler heating where a cable to the appliance is not available. It is non-programmable with a large push button and a clear LCD, and can be wall mounted or stood on a base, so the room unit can sit where sensing is accurate rather than where a wall plate would go.

Key benefits

- Wall mount or base mount, so the unit can sit on a shelf or table
- Large push button keeps operation simple for any occupant
- No control cable between the room and the boiler
- Low battery indicator warns before control is lost



Model	S2305
Backlight	Blue/
Material	ABS+
Weight	400g
Package Included	1Wireless Thermostat 1

230V RF Wireless Programmable Boiler Thermostat for HVAC System

Wireless Thermostat, 230V Wireless Thermostat, Gas Boiler Thermostat, Programmable Thermostat

S2303RF combines a wireless link with a high resolution schedule: 48 time settings and two temperature levels per day, across a 7 day programme. The link runs on 868 MHz for more stable communication, and an LED system indicator on the receiver shows whether the boiler is being called. An AUTO/MANUAL switch lets an occupant override without losing the stored programme.

Key benefits

- 48 time settings per day give half hour resolution on a wireless unit
- 868 MHz link chosen for communication stability
- AUTO/MANUAL switch overrides without losing the programme
- LED system indicator shortens fault finding on site



Model	S2303
Backlight	Blue/
Material	Anti-flammable PC+ABS, ABS +
Weight	400g
Package Included	1Wireless thermostat 1

230V LCD System Digital 7 Days Programmable Wireless Smart Thermostat for Temperature Control

Wireless Thermostat, 230V Wireless Thermostat, Air Conditioner Thermostats, Programmable Thermostat

S2302RF is the wireless 7 day programmable thermostat aimed at air conditioning, heating, HVAC, radiator and ventilation duties. It holds six times and six temperatures per day, switches between AUTO and MANUAL operation, and shows everything on a digital LCD with blue or orange backlighting. The classical housing design suits living rooms rather than plant areas.

Key benefits

- Six time and temperature steps per day over a wireless link
- AUTO/MANUAL switching for one-off changes
- Covers air conditioning, heating, HVAC, radiator and ventilation duties
- Battery low indicator before control is lost



Model	S2302
Backlight	Blue/
Material	Flame Retardance ABS
Weight	400g
Type	Air Conditioning / Heating / HVAC Systems / Radiator / Ventilation /
Package Included	1Wireless Thermostat 1

230V Boiler Heating Wireless Room Thermostat S2301RF

Wireless Thermostat, 230V Wireless Thermostat, Gas Boiler Thermostat, Non-Programmable Thermostat

This is S2301RF described as the 230V boiler heating wireless room thermostat: an 868.35 MHz link, a large push button, and heating, cooling and frost protection modes. It can be wall mounted or stood on a base, and an LED system indicator shows whether the boiler is being called. A low battery indicator and room temperature calibration complete the set.

Key benefits

- 868.35 MHz link described as giving more stable communication
- Frost protection alongside heating and cooling
- Wall mount or base mount, so the unit can sit where sensing is accurate
- LED system indicator shows the call for heat at a glance



Model	S2301
Backlight	Blue/
Material	Anti-flammable PC+
Weight	400g
Package Included	1Wireless Thermostat 1