



0582040 RF TRANSMITTER

USE AND INSTALLATION INSTRUCTIONS

Read the instructions before using the device. This control must be installed in compliance with current legislation



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FOREWORD

Introduction to the manual

The purpose of this manual is to provide the information you need to install and use this product properly and safely.

This information is the outcome of ongoing, systematic data processing and technical tests recorded and validated by the Manufacturer, in compliance with its in-house information quality and safety procedures.

The contents of this manual are intended exclusively for skilled, informed and trained users, capable of operating in conditions that are safe for people, the system and the environment, and fully compliant with the requirements discussed in the following pages and in current occupational health and safety legislation.

The information concerning assembly/installation, servicing, replacement and repair is intended for authorized and skilled technicians, who are always the only people allowed to carry out said activities.

For the proper handling of the system, it is essential to ensure the readability and proper preservation of this manual, also for future reference. Contact the Manufacturer directly in the event of its deterioration, or to ask for any further technical and operational information you may need.

The text, descriptions, images, examples and all other details contained in this document are the exclusive property of the Manufacturer. All rights reserved.

Product description

The RF handset is a remote control based on RF transmission, specifically designed to operate in combination with a specific RF receiver module.

SYSTEM IDENTIFICATION

0582012, RF receiver:



0582040, RF transmitter:

NOTE: when placing the RF receiver module, it is recommended to straighten the antenna as much as possible by keeping it as far as possible from metallic surfaces.

CAUTION! It is strictly forbidden to remove or damage the labels. Where necessary, have them replaced urgently and exclusively by the Manufacturer.

For any information and/or technical needs relating to the use and servicing of the device, always provide the following preliminary details:

- *Product code*
- *Product revision*
- *Date of manufacture*

Example:

- 0584040
- Revision: 00;
- Date of manufacture: : 12 - 06;
- Date of issue of the manual (as shown on the cover).

The devices in the "582" Series are manufactured by SIT La Precisa. Any, even partial reproduction of the product, auxiliary assemblies and accompanying documentation is strictly forbidden.

RF Remote Control

See Fig. 1 and the table 1:

- ① Position of room temperature sensor
- ② LCD display
- ③ ON-OFF/PILOT Key
- ④ MANUAL-AUTOMATIC Key
- ⑤ UP-DOWN arrow Key
- ⑥ FUNCTION (SLEEP-PROGRAM)^(*) Key or keyboard lock-release^(**)
- ⑦ Base and battery compartment

Note: when RF remote is associated to BIC 05844XX, where Direct Burner Ignition is present, PILOT position of the remote is equivalent to OFF position for the application.

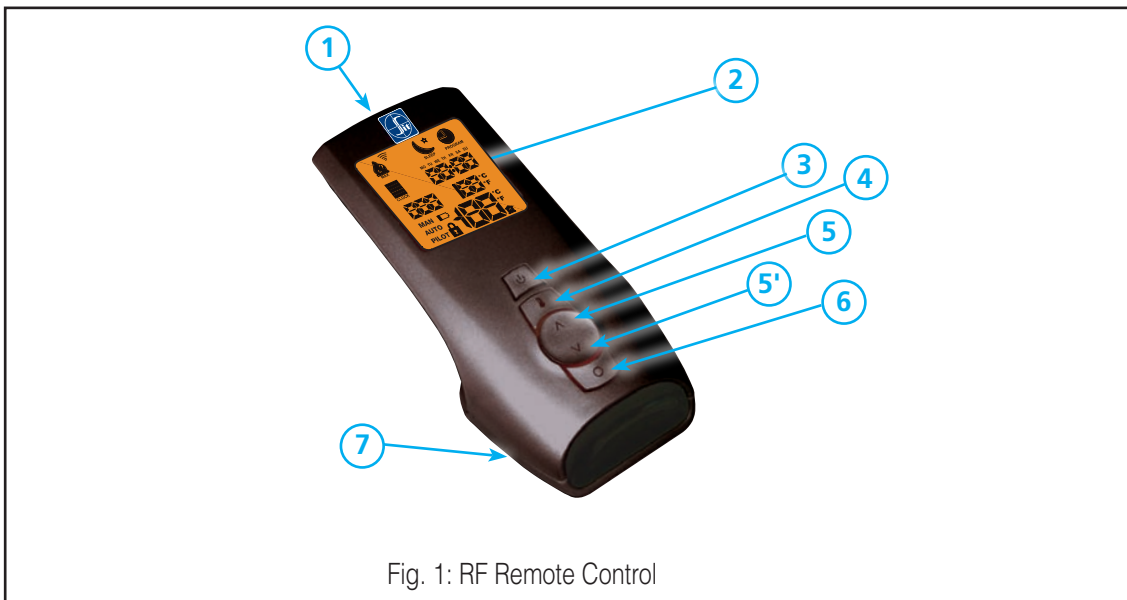


Fig. 1: RF Remote Control

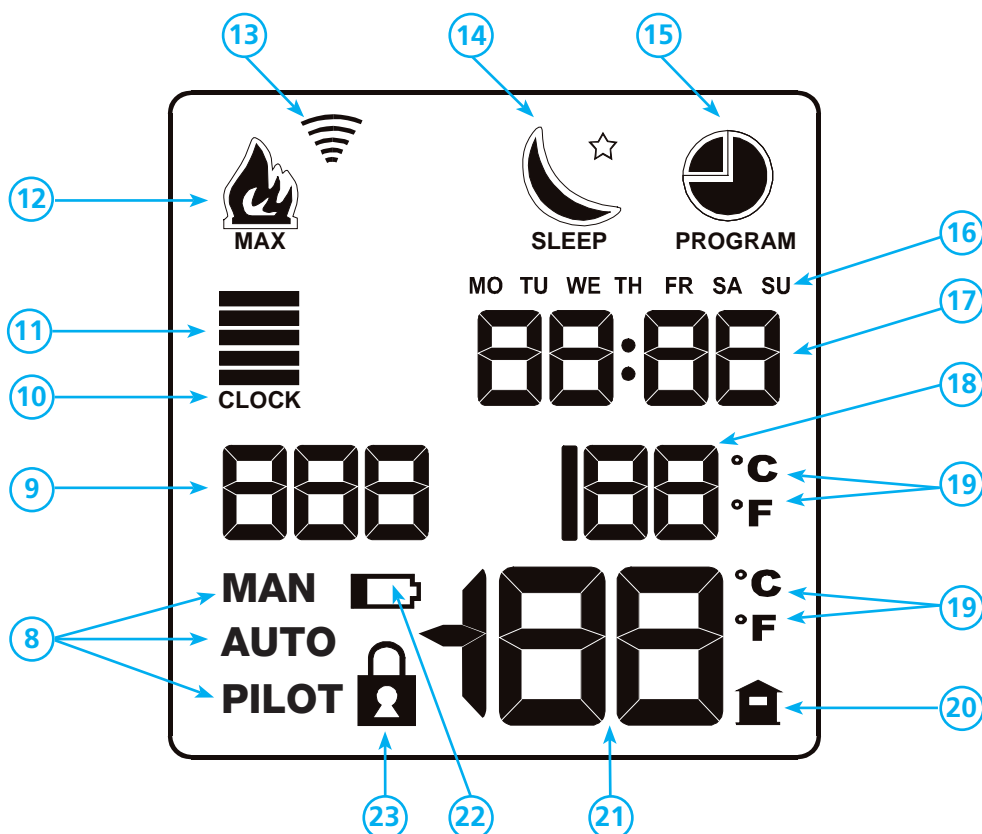
Ref.	Icon	Description
3	⏻	ON-OFF/PILOT
4	🔥	MANUAL-AUTOMATIC mode
5	^	Increase
5'	v	Decrease
6	○	SLEEP-PROGRAM mode (*) Keyboard lock-release (**)

Table. 1: RF Control panel keyboard

(*)The button (6) moves between SLEEP and PROGRAM and with a third pressure of the button return into previous status (MANUAL or AUTO).

(**)See **Initial start-up. Keyboard lock-unlock** at page 9.

LCD Display



- ⑧ Functioning mode symbols (MANUAL - THERMOSTATIC - PILOT).
- ⑨ Digits identifying the weekly TIMER program currently selected.
- ⑩ Clock setting symbol. When this symbol appears, you can adjust the clock setting displayed by the digits.
- ⑪ Flame power bars: 1 bar = level 1, 2 bar = level 2, 3 bar = level 3, 4 bar = level 4, 5 bar = level maximum. These bars appear only in manual mode.
- ⑫ Flame symbol, indicating the current flame power. If flame power is at level 5, the MAX message appears.
- ⑬ Symbol for data transmission to receiver
- ⑭ SLEEP function symbol. If this symbol does not appear, the SLEEP function is not active. If only the outline of the symbol appears, the SLEEP function is active, meaning that the appliance will switch off at the end of the countdown period set by the user and shown by symbol 17. A solid black symbol indicates that you are in the SLEEP setting menu .
- ⑮ TIMER symbol. If this symbol does not appear, the TIMER is not active. If only the outline of the symbol appears, the TIMER is active. A solid black symbol indicates that you are in the TIMER setting menu.
- ⑯ Symbols indicating the current day.
- ⑰ Internal clock. The clock functions as a countdown when the SLEEP function is selected .

- 18 The temperature set by the user, that the appliance must achieve in AUTOMATIC mode. This symbol does not appear in MANUAL mode.
- 19 Selectable unit of temperature measurement (Celsius – Fahrenheit).
- 20 Symbol identifying room temperature measured by the built-in sensor.
- 21 The temperature currently measured by the remote control’s built-in sensor from the room around the remote control.
- 22 Low battery symbol. When this symbol disappears completely without flashing, the batteries must be replaced.
- 23 Keypad lock symbol (lock function prevents accidental operation of buttons)

Proceed with the programming according to the sequences indicated in Section "RF transmitter configuration" (Initial Start-Up, Operating Modes) ONLY after reading the information in the following sections.

Definitions

Automatic mode	Thermostatic: the flame level is automatically set by the remote depending on the SET room temperature and the actual room temperature
Manual mode	The flame level is set manually by the user
STANDBY	Only the pilot icon is ON, but application corresponding status is OFF.
CRONO	Time program mode: the remote switches ON-OFF the burner depending on the set time Program
Tcheck_STANDBY	Temperature check time in AUTO mode, STANDBY position
Tcheck_MIN	Temperature check time in AUTO mode, MIN position (level 1)
Tcheck_LEVEL	Temperature check time in AUTO mode, burner positions (level 2 up to level 5)
TSET_MIN	Minimum SET temperature in AUTO mode
TSET_MAX	Maximum SET temperature in AUTO mode

RF transmitter. Electrical features

Supply voltage:	4.5 V (three 1.5 V AAA batteries)
Ambient temperature range:	0 to 50 °C (32 to 122 °F)
Storage temperature range:	0 to 50 °C (32 to 122 °F)
Humidity	≤ 85%
Radio frequency:	433 MHz
	65,535 codes options
Maximum range:	10 meters

RF transmitter. Functional parameters

t _{SET_MIN} :	5°C (41 °F)
t _{SET_MAX} ::	35°C (95 °F)
t _{CHECK_STANDBY} :	1 min
t _{CHECK_MIN} :	1 min
t _{CHECK_LEVEL} :	1 min

Initial start-up. Preliminary operations

Insert the 3 AAA batteries in the back battery seat (Fig. 2 and Fig. 3).



Fig. 2



Fig. 3

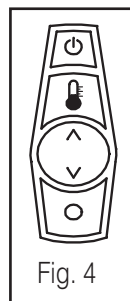


Fig. 4

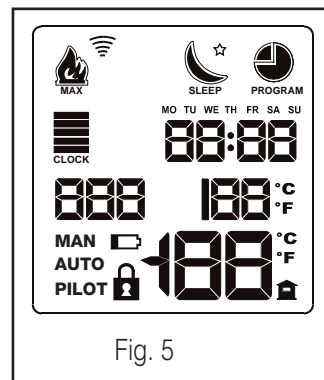


Fig. 5

Clock regulation

Quick description: clock regulation is done by mean of keys $\hat{\diamond}$ and \circ (Fig. 4)

After first power on (batteries insertion)

As soon as the batteries are newly inserted the time's digits blink.

The keys $\hat{\diamond}$ - Fig. 4 - increments ("UP" side) and decrements ("DOWN" side) the hour, minute and week's day value, the keys \circ - Fig. 4 - set the on going modification's value among hour, minutes, and week's day. After week's day regulation, pushing \circ - Fig. 4 - key sets automatically the operational mode "OFF".

During operation

During operation, press contemporarily for 3 seconds the pushbuttons \circ and 🔒 - Fig. 4 -, the written "CLOCK" will appear. To change the clock settings, repeat the above described operations.

Switching ON-OFF

Quick description: keep key 🔌 - Fig. 4 - pressed at least 2 seconds.

By pressing the pushbutton 🔌 - Fig. 4 - for at least 2 seconds, the fireplace and the handset are switched ON-OFF. When the remote is switched OFF, the display shows the time, day, room temperature and if enabled, "CRONO" symbol 🕒 - Fig. 5 - .

Automatic-Manual mode selection

Quick description: press key 🔌 - Fig. 4 -

With fireplace lit, by pressing key 🔌 - Fig. 4 - the operational mode is switched from manual to automatic (see page Definitions) and vice versa.

When switched from MAN to AUTO, the flame level is set on level 1.

When automatic mode is active, the display shows the SET temperature value and the "AUTO" icon.

When manual mode is active, the display - Fig. 5 - shows the "MAN" icon, the flame's icon 🔥 and the actually set flame level. If level 5 is currently active, the icon "MAX" below the flame's icon appears.

Initial start-up. Manual mode burner level selection

Press and hold the "ON" button (\odot - Fig. 4 -) for at least 2 seconds to enable the ignition sequence (see Section 11.5).

Use the "UP" (\wedge - Fig. 4 -) and "DOWN" (\vee - Fig. 4 -) buttons to increase or decrease the gas flow to the burner. The operation is not cyclic.

In manual mode it's not possible to have a level lower than level 1.

Initial start-up. AUTO mode operation

When AUTO mode is selected, the automatic modulation is enabled the system setting its operation depending on the values of T_{SET} and T_{ROOM} .

Initial start-up. Modulation

T_{ROOM} is checked and compared with T_{SET} at fixed time intervals and depending on these values, the burner level is updated by one level step at each temperature check:

$T_{ROOM} < T_{SET} \rightarrow$ burner level INCREASE

$T_{ROOM} \geq T_{SET} \rightarrow$ burner level DECREASE

As long as $T_{ROOM} < T_{SET}$, the burner level is increased up to MAX (level 5), remaining in this state until $T_{ROOM} \geq T_{SET}$. On the other hand, as long as $T_{ROOM} \geq T_{SET}$, the burner level is decreased down to STANDBY position; when in this position, icon "PILOT" appears.

The motor remains in the updated burner level until the next temperature check occurs, that is until the temperature check waiting time is expired. When in MIN position (level 1), if temperature check results $T_{ROOM} \geq T_{SET}$, the system remains in this position for a time t_{check_MIN} , after that, if $T_{ROOM} \geq T_{SET}$ condition is still valid, it proceeds to STANDBY.

In the following table are listed the different waiting times for each burner level:

Burner Level	Temperature check waiting time
STANDBY level (PILOT)	$t_{CHECK_STANDBY}^{(1)(2)}$
LEVEL 1 (MIN) to STANDBY	$t_{CHECK_MIN}^{(2)}$
LEVEL 1 (MIN)	$t_{CHECK_LEVEL}^{(2)}$
LEVEL 2	
LEVEL 3	
LEVEL 4	
LEVEL 5 (MAX)	

Table 2

(1) This waiting timer is reset in case of manual update of T_{SET} above T_{ROOM}

(2) See "Functional parameters" table

Initial start-up. STANDBY level exit conditions

The system moves out from STANDBY level if:

- 1) Temperature check waiting timer has expired and $T_{ROOM} < T_{SET}$.
- 2) While in STANDBY position, in case of manual update of $T_{SET} > T_{ROOM}$, regardless temperature check waiting timer value.

Initial start-up. STANDBY level exit behaviour



When the system goes back to modulation, it proceeds as follows:

The system moves to level 1 and here remains for a time $t_{\text{CHECK_LEVEL}}$ (see "Functional parameters" table), and from this point operates according modulation algorithm, as explained at par. "Modulation".

Initial start-up. Sleep mode


Menu navigation

Quick description: by key  - Fig. 4 - pressure


By pressing key  - Fig. 4 - , it's possible to move sequentially to the accessory functions "sleep" and "program", in this order; with a further pressure of key  - Fig. 4 - the display operation comes back to the active operational mode.

If no key is pressed within 7 seconds from the menu navigation's activation, the display comes back to the active operational mode.

Sleep function  - Fig. 5 -


"Sleep function" can be set by accessing the related menu (see par. Menu navigation). The activation of sleep function is postponed from the activation of a fixed time, settable (increase/decrease) at 15 minutes interval. The remaining time to sleep activation substitutes the current time indication on the display. After the deactivation of sleep menu (7 seconds without any key pressure or further key  - Fig. 4 - pressure), the countdown to sleep activation appears on the display. As soon as sleep mode activation's occurs, the current time is again shown.

If, during the sleep activation waiting interval a STANDBY activation is scheduled by CRONO program, it is ignored and the operation proceeds until SLEEP intervention, while a manual STANDBY or shut OFF disables the previous SLEEP command.


When SLEEP mode is active, the outline of SLEEP icon  - Fig. 5 - is shown.

Initial start-up. Crono and programming mode

Crono program function 

"CRONO" mode program can be set directly by key  - Fig. 4 - pressure if the burner is OFF, otherwise accessing to MENU navigation (see Par. MENU navigation).

Once entered in program MENU navigation, the last set program is loaded, also OFF if the CRONO was previously disabled.

When CRONO is on, the outline of CRONO icon is shown  - Fig. 5 - whilst the solid icon appears only during setting.

Crono programs

There are 10 weekly programs, to disable CRONO operation select the "OFF" program.

Weekly Programs

Weekly program			Timetable																									
N°	Program Type	Days	12.00 AM	1.00 AM	2.00 AM	3.00 AM	4.00 AM	5.00 AM	6.00 AM	7.00 AM	8.00 AM	9.00 AM	10.00 AM	11.00 AM	12.00 PM	1.00 PM	2.00 PM	3.00 PM	4.00 PM	5.00 PM	6.00 PM	7.00 PM	8.00 PM	9.00 PM	10.00 PM	11.00 PM	12.00 AM	
			P01	Householder	Mon - Fri Sat - Sun																							
P02	Shift worker	Mon - Fri Sat - Sun																										
P03	Shop	Mon - Fri Sat - Sun																										
P04	Shopkeeper	Mon - Sat Sun																										
P05	Shopkeeper	Mon - Sat Sun																										
P06	Workman / Clerk	Mon - Fri Sat - Sun																										
P07	Workman / Clerk	Mon - Fri Sat - Sun																										
P08	Workman / Clerk	Mon - Fri Sat - Sun																										
P09	Workman / Clerk	Mon - Fri Sat - Sun																										
P10	Week-End	Fri Sat - Sun																										

ON
 OFF

Initial start-up. Keyboard lock-unlock

By keeping pressed "O" key at least for 5 seconds, the keyboard is locked-unlocked. The locking icon appears:

Initial start-up. °C-°F

With remote OFF, keeping pressed "°C" key at least for 5 seconds, the temperature unit changes from Celsius to Fahrenheit degrees and vice versa.

Initial start-up. Battery level indication

When the batteries have to be changed, the related icon appears:

Shutdown procedure

In RUN mode, when the remote "P" button is pressed for a time < 1 second, the system goes to "PILOT" status.

Regulatory Compliance (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC Rules.

NOTE:

Any changes or modification not approved by SIT LA PRECISA S.p.A. could void the user's authority to operate the equipment.

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0582040 RF TRANSMITTER USE AND INSTALLATION INSTRUCTIONS



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