

Infrared Panel Heater with Wireless Thermostat

"Frame WIST" Series W 30/60/90/120/150





INSTALLATION AND OPERATION

CONTENTS

1.	PF	RODUCT SPECIFICATIONS	3
2.		ACKAGE CONTENTS	
	2.2. 2.3.	Assembled Heating Panel Thermostat	
3.	-	STALLATION	
	3.1.	FIRST-TIME SETUP	4
	3.2.	SETTING THE TIME AND DATE	
4.	FL	JNCTIONALITY SETS	5
5.		ERVICE MENU (PR1 – PR15)	
	Pr Pr		
	Pr		
	Pr	I	
	Pr		
	Pr	5	
	Pr Pr		
	Pr		
		10 Pairing and unpairing panel(s) to a thermostat	
		11 Display temperature in Celsius or Fahrenheit scale	
		 12 Frost guard 13 Frost guard threshold 	
		14 Temperature sensor calibration	
	Pr	15 Thermostat functionality set	
6.	LE	ED INDICATOR (PANEL STATUS)	8
7.	R/	APID HEATING & ECO MODE	8
8.	KE		8
9.	TH	HERMOSTAT BATTERY	8
10.		THERMOSTAT MODES	8
-	10.1.		
	10.2.		
	10.3.		
	10.4. 10.5.		
	10.6.		
11.		SCHEDULED HEATING PROGRAMS	9
	11.1.	AUTO MODE (AUTO) - WEEKLY PROGRAMMING	9
	11.2.	HOME mode (🖸) - Daily Programming	10
12.		CHANGING THE TIME AND DATE	
13.		TURNING OFF THE PANEL & THERMOSTAT	
14.		SAFETY NOTES	. 11

1. PRODUCT SPECIFICATIONS:

Model Number	W30	W30 W60		W120	W150			
Dimensions*	596mm x 296mm x 58mm	596mm x 596mm x 58mm	596mm x 896mm x 58mm	596mm x 1196mm x 58mm	596mm x 1496mm x 58mm			
Max. Wattage	500W	500W	800W	1000W	1300W			
Panel Weight	4.5 kg	7.2 kg	10.2 kg	13.2kg	16.2 kg			
Input Power	230V~ 50-60Hz							
Current	Current 1A 2.2A		3.5A	4.4A	5.7A			
Power Cable	Length 2m with Earthed connection plug							
Glass	Tempered glass or tempered mirror - Max. surface temperature 125°C							
Frame	Aluminum profile							
Effective Area 6m ² 1		10m ²	15m ²	20m ²	25m ²			

* Assembled dimensions, with mounting hardware for wall/ceiling

2. PACKAGE CONTENTS:



2.2. Assembled Heating Panel

Back view. The front heating surface is tempered safety glass surrounded by aluminum framing





3. INSTALLATION:

The heater should not be obstructed by or placed behind furniture or other objects (see also safety notes). Because of its IP rating (IP50), when installing in bathrooms or kitchens, the panel must be placed at a position where it will not come into contact with water (see Safety notes, **page #10**). The heater should be installed at a position where occupants would normally be at the same distance from it.

Once the most favorable installation position has been identified, please follow these steps:

Step 1: Place the installation template on the wall using tape, ensure that it is level, and mark the 4 locations of the holes for the wall plugs and mounting screws. Verify that there are NO electrical cables in the wall where you will be drilling. It is also advised to choose a location for the panel where there is no metal content or electrical cabling 10cm or less from the plastic housing of the electronic components (this contains the antenna).

Step 2: Use a drill bit suitable for the wall material type. For concrete/ brick walls, use a drill with a diameter of 8mm.

Step 3: Put the wall plugs in the holes and fix the screws until the head of each remains about 1 cm from the wall. Plugs for solid (concrete, brick) walls are provided. In case of doubt, please ask for assistance from a professional.

Step 4: Hang the panel using its mounting brackets on the screws, and then close the 2 security tabs for added safety. Be sure that the power cable does not cross over the rear component box. This may in some cases cause a lower reach in distance of signals between the thermostat and heating panel.

Step 5: Remove the back cover from the thermostat and then remove the paper which separates the battery from its (+) contact terminal. Replace the cover and secure it with the smallest screw provided in the bag of mounting screws. Plug the power cord of the panel into a standard electrical wall outlet.

3.1. First-time Setup:

The heating panel and thermostat supplied in each box are paired (pre-assigned) to function together at manufacture. Follow the pairing / unpairing procedure under **Pr 10** in the Service Menu (**page #6**) only if necessary – for example when pairing 2 or more panels to one thermostat.

3.2. Setting the Time and Date:

When the battery is inserted back into the thermostat, all elements on the LCD will display briefly. "Time" will then appear and the flashing elements for HOUR, MINUTE, DAY, MONTH and YEAR can be increased or decreased with the \leq or \neq keys, then confirmed with the \leq or \neq keys, then sequence below (see also section 12, **page #10**):



Afterward, the default mode is **MAN** (manual), the default set temperature is 20°C and thermostat functionality is in "SIMPLE" functionality (example at right). Rapid heating is also enabled by default – indicated by the **MAX** symbol. To the right, 23.4°C is displayed on the LCD, but this is only an example of real room temperature, not the set temperature. The desired room temperature can be viewed or changed by pressing the < or (+) keys.



4. FUNCTIONALITY SETS:

After initial start-up, SIMPLE functionality is enabled by default. There are two types of functionality sets:

	ENHANCED functionality set means that all functions described in this manual are enabled and may be modified.					
main screen. The user sets the temperature with \leq or \vdash in MAN (manual) mode. This is similar to using a normal type thermostat with a control dial.	AUTO, HOME, AWAY, - AUTO / ALTO / ALT					
MAX (MAX mode) is also active by default and uses the maximum power capacity of the heating panel until the desired temperature is reached (see section 7, page #8).	, , , , , , , , , , , , , , , , , , ,					
Other functions in SIMPLE functionality are: • energy saving mode with possibility of time&date adjustment (section 12) • service menu with access to most of its sub-functions (see sections 5)						
*** To switch between the 2 functionality sets, use parameter 15 (see Pr 15, page #7) ***						

5. <u>SERVICE MENU (Pr1 – Pr15):</u>

The purpose of this menu is the full configuration of the thermostat parameters.

(Note: The parameters are pre-configured for optimal usage, with the exception of pairing and un-pairing - Pr10.)

The service menu is activated by holding down $\frac{MODE}{EM}$ + $\frac{SET}{CK}$ for 5 seconds. To save the changes to any setting and exit, use the same combination $\frac{MODE}{EM}$ + $\frac{SET}{CK}$ (hold for 5 seconds), or press the $\frac{MODE}{EM}$ button to save the setting change and then move on to the next menu item. If no button is pressed, the menu automatically turns off after 1 minute and the new setting will be saved.





 8. The LCD displays the message "AN INFRAPANEL FOUND" and the message that it is not yet saved "NONE" 9. Press the <a>and buttons to select the position where the panel will be saved. 	
 10. Press SET and then + 11. Next, the LCD displays the ID number of the panel and the position number will flash. 12. Press SET // The panel is paired and saved to the first position. To exit the menu, press the MODE button 3x. 	and +
 PAIRING A SECOND PANEL TO THE SAME THERMOSTAT: 1. The same procedure is followed to add a second panel to the thermostat. 2. In the above example, a panel was assigned to position 1. Now we will add a panel at position 2. 3. Repeat steps 1-8 from the previous section. 4. Use <- or +> to select the position at which the panel will be assigned (in this case at position 2). 5. Press SET and then +> 6. Next, the LCD displays the ID number of the panel and the position number will flash. 7. Press SET 8. The display shows "DONE" and "SAVE" 9. The panel is paired and saved at the second position. To exit the menu, press the MODE" button 3x. 	$\frac{1}{100} - C3 + \frac{2}{100} + \frac{1}{100} +$
 UNPAIRING PANELS: 1. Standard working screen. 2. Press ^{MODE}/_{See} and ^{SET}/_{See} for 5 seconds to enter the service menu. 3. Press → 9 times to select parameter 10 (Pr 10). 4. Enter the scanning / pairing menu by pressing ^{SET}/_{See} 5. Press again. 6. Select the panel you would like to remove at its position using and + 7. Press ^{SET}/_{See} to confirm. 8. Press to unpair (remove) the panel from the thermostat's control. 9. The panel has been unpaired and screen will display "DONE". 	Pr-10 ±o 5 PE \$0-E3 \$0-E3
Pr 11 Display temperature in Celsius or Fahrenheit scale [0]=Celsius, [1]=Fahrenheit / default: Celsius: Choose between using the Celsius or Fahrenheit scale.	MODE Ext SET Seconds, X10 SET Seconds, X10 SET Seconds Seconds Sec
Pr 12 Frost guard [0]=OFF [1]=ON / default [0]=FF: This enables the feature to prevent the panel electronics from falling below freezing temperatures while plugged in. Only necessary for extreme cases/ environments.	MODE Ext Pri2 Set Seconds, *x11 Pri2 Set 5 seconds, *x11 Set 5 seconds, *x11 Set 5 seconds,
Pr 13 Frost guard threshold default [5]=5°C: If the frost guard is enabled, temperatures between 5°C-10°C / 40°F-50°F may be selected. If the panel structure falls below this temperature, the frost guard will activate.	

Pr 14 Temperature sensor calibration default [0]=0°C/°F: May be set from -2.5°C to +2.5°C at increments of 0.1°C, or from -4.5°F to 4.5°F at increments of 0.1°F.	MODE Ext + SET 5 seconds, + x13 Pr i y SET 5 seconds, + x13 Pr i y SET 5 seconds, - x13 SET 5 seconds, - x13
Pr 15 Thermostat functionality set default [0]=SIMPLE: [0] [0] SIMPLE functionality. Temperature is controlled (up/down) with no additional programming. [1] ENHANCED functionality. Enables the option to program scheduled heating by day of the week, time, etc. in the AUTO, HOME, and AWAY settings - AUTO / ()	MODE Ext Frischer SET 5 seconds, + x14 Frischer SET 5 seconds, + x14 Frischer SET 5 seconds, + x14 Frischer SET 5 seconds, + x14 Frischer SET SET 5 seconds, + x14 Frischer SET SET SECONDS SET SECONDS SET SECONDS

6. LED INDICATOR (PANEL STATUS):

Located on the component housing at the rear of the heating panel.

	Panel State	LED Status	Description	Heating Activity	Pairing Status	Responds to scanning/ pairing	Responds to un-pairing
	1	Red, flashing	Default state	Not heating	Un-paired	Yes	No
	2	Green, continual	Normal, working	Heating according to program	Paired	No	Yes
	3	Green, flashes for 3 minutes until it receives signal	Temporary state, after state #2, if previously paired panel is restarted	Not heating until signal is received from thermostat	Paired	No	Yes
LED	4	Red, continual.	If thermostat does not respond for 5 minutes or more	Not heating until signal is received from thermostat	Paired	Yes	Yes

7. RAPID HEATING & ECO MODE:

Rapid Heating (MAX) is enabled by default and uses the maximum power capacity of the heating panel until the desired temperature is reached. To disable it and use 50% power - Eco Mode - (in ENHANCED functionality only), press the MODE and + buttons simultaneously for a period of 5 seconds, then the MAX symbol will disappear. Re-enable it with the same key sequence. Eco mode may also be used in SIMPLE functionality by switching back to SIMPLE (Pr 15) when the MAX symbol is not visible on the LCD. To reactivate MAX in SIMPLE functionality, it must first be enabled while in ENHANCED functionality (Pr 15).

8. KEYPAD LOCK:

ENHANCED functionality only.

Accidental changes to thermostat settings by children or other persons can be prevented by locking the keypad. This is done by holding down the \triangleleft and \vdash keys simultaneously for 3 seconds, display shows **Om**. Repeat the procedure to unlock.

9. THERMOSTAT BATTERY:

One battery powers the thermostat and it should last for 2 - 3 years. When low battery voltage is detected, an "empty battery" sign (
) will appear at the middle left part of the display. When replacing the battery, use only **3.6 volt**, AA-size Lithium Thionyl Chloride type - (Li-SOCI2) type ER 14505(M). **Note:** Inserting the battery at reversed polarity may damage the unit.

10. THERMOSTAT MODES:

Thermostat control is very straightforward. It works in the following modes (heating programs):

10.1. Manual Mode	MAN (Accessible in SIMPLE or ENHANCED functionality)				
This is the simplest mode, and the default. When the thermostat starts up for the first time, this mode is active with a default set temperature of 20°C. To					
enable MAN from another mode (heating program), click the MODE button until the MAN symbol appears at the bottom of the display.					
To set desired temperature, press the \bigcirc or \vdash buttons. When the desired temperature is set, it will flash for 3 seconds and then will be saved to the memory. If either of the two buttons is held down longer, the set temperature on the LCD will advance faster. The set temperature range is from 5°C to 35°C at steps 0.5°C, or 41°F to 95°F at steps of 0.5°F.					

10.2. Auto Mode	- AUTO (Accessible in ENHANCED functionality)								
To enter this mode from another mode (heating program), click the bottom until the bottom of the display. The pre- programmed weekly program then becomes active – see section 11.1 below for programming instructions.									
10.3. Auto + Manual Mode _ MAN AUTO (Accessible in ENHANCED functionality)									
This mode is activated in AUTO mode. When AUTO is activated, press is or buttons. Its purpose is to temporarily change the set temperature in AUTO mode (the weekly program) to a different value. This may come into account when the user is not satisfied with the current, pre-programmed setting. This mode is equivalent to MAN mode, the only difference being its duration. MAN mode is permanent, AUTO + MAN mode expires: • with the next time-temperature change in the daily program and then AUTO mode is active again, • If the MODE button is pressed by the user, the thermostat will go back to its previously set mode.									
10.4. Home Mode - (Accessible in ENHANCED functionality)									
HOME mode is nothing else but a daily program. When this mode is active, all 7 days of week will use the same heating program. The purpose of this mode is in case that the user doesn't want to program an entire mode, but quickly schedule a heating program that heats during the day and saves energy at night.									
To enter this mode from an programmed daily program the	other mode (heating program), click the button until the symbol appears at the bottom of the display. The pre-								
10.5. Home + Manual	Mode - MAN (Accessible in ENHANCED functionality)								
Home mode to a differ equivalent to MAN mode, • with the next time-temperat	This mode is activated from Home index. When is activated, press or buttons. Its purpose is to temporarily change the set temperature in Home is mode to a different value. This may come into account when the user is not satisfied with the current pre-programmed setting. This mode is equivalent to MAN mode, the only difference being its duration. MAN mode is permanent, is MAN mode expires: • with the next time-temperature change in the daily program and then AUTO mode is active again, • If the MODE button is pressed by the user, the thermostat will go back to its previously set mode.								
10.6. Holiday (Away)	Mode _ (Accessible in ENHANCED functionality)								
The purpose of this mode is to set one temperature level for a selected period of time (for instance during a vacation or business trip), without the need to reprogram the weekly program settings in AUTO mode. To invoke this mode, hold for 3 seconds. Then, with core set the period for how long the new temperature should be maintained. First, hours are shown and then, if more than 24 hours is required, the increments change to days. The maximum interval is 99 days. When the interval is defined, the user is prompted to set the required temperature (again with core set) for this period. Confirmation must be made with the set period is over, the thermostat will go back to its previously set mode.									
11. <u>SCHEDULED HE</u>	ATING PROGRAMS (Available in ENHANCED Functionality)								
11.1. AUTO mode (AU	TO) - Weekly Programming:								
	ifferent types of weekly programming schedules; To modify 5+2 mode: etween them, go to Service menu, Pr 2. 1. Press the SET button for 3 seconds.								
 5+2 is factory-set as the default [1]. See page 5 (Pr2) to switch to 7+0 [0]. 1. Press the default [1]. See page 5 (Pr2) to switch to 7+0 [0]. 2. The numbers "1 2 3 4 5" will blink on the LCD (weekdays). 3. Press SET to begin setting the time for T1 (weekdays). 									
In 5+2 mode , one temperatu – Fri), and another for weeke	re schedule is set for weekdays (1 2 3 4 5 = Mon 4. Choose the hour for T1 with ≤ 1 and t^{+} .								
The pre-set times and tempe	ratures for 5+2 weekdays are: 6. Choose the minute for T1 with < and +.								
T1 T2 T3									
	B T4 T5 T6 8. The desired temperature will flash. Use <- or +> to select. 1:00 20:00 22:00 23:55 9. Press SET />SET // to confirm the temperature for T1 and repeat the same steps								
	2°C 22°C 20°C 20°C as above for times T2 to T6. 10. After setting all of the schedule parameters, the message "SAVE" will will								
22°C from 06:00 to 08:00 in	that the panel will begin to heat the area to the morning. After 08:00 the temperature is set at oon. Beginning at 14:00, the room temperature is 12. Press SET to begin setting the time for T1 (weekends).								

The above table illustrates that the panel will begin to heat the area to 22°C from 06:00 to 08:00 in the morning. After 08:00 the temperature is set at 20°C until 14:00 in the afternoon. Beginning at 14:00, the room temperature is set to 22°C until 22:00. Thereafter, heating is set to 20°C until 06:00 the next **13.** Choose the hour for T1 with \triangleleft and \vdash . morning. This heating schedule is repeated five days a week (from Monday to

Friday). The pre-set times and temperatures for 5+2 weekends are:						14. Press $\xrightarrow{\text{SET}}$ to confirm the hour. 15. Choose the minute for T1 with \frown and $+$.		
T1	T2	тз	T4	T5	Т6	16. Press $\xrightarrow{\text{SET}}$ to confirm the minute.		
07:00	08:00	14:00	20:00	23:00	23:55	17. The desired temperature will flash. Use $<\!\!\!\!\!\!$ or $\qquad\!\!\!\!\!\!\!$ to select.		
22°C	22°C	22°C	22°C	20°C	20°C	18. Press SET to confirm the temperature for T1 and repeat the same steps		
22°C from 20°C until 0	07:00 until 2 17:00. This cy	23:00. Begin cle will repe	ning at 23:0 at the next w	0, the tempe eekend day.	temperature at rature is set to or each day of	7+0 mode allows you to set different times and temperatures for each day of the week. Its programming procedure follows the same steps as		
11.2. HO	ME mode	(🔁) - 🛙	Daily Prog	ramming:				
HOME mode is nothing else but a daily program. It also has 6 events (for time/temperature), like AUTO mode. The only difference is that when this mode is active, all 7 days of week will use the same heating program. The purpose of this mode is in case that the user doesn't want to program an entire AUTO mode, but quickly schedule a heating program that heats during the day and saves energy at night. The pre-set times and temperatures for HOME mode are:						 Press until the HOME () symbol appears on the LCD. Press to begin programming the time T1. 		
T1	T2	Т3	T4	T5	T6	8. The desired temperature will flash. Use <-> or +> to select.		
07:00	08:00	14:00	20:00	23:00	23:55	9. Press $\underbrace{\text{SET}}_{\text{ork}}$ to confirm the temperature for T1 and repeat the same steps as above for times T2 to T6.		
22°C	22°C	22°C	22°C	20°C	20°C	10. After setting all of the schedule parameters, the message "SAVE" will will		
The above example shows that the panel will hold the room temperature at 22°C from 07:00 until 23:00. Beginning at 23:00, the temperature is set to 20°C until 07:00. This cycle repeats every day of the week.						appear on the LCD. The heating program is now assigned for every day of the week.		

12. CHANGING THE TIME AND DATE

The time and date may be set either during initial start-up (when the battery is inserted) – (see section 3.2) or through the programming menu (accessible in ENHANCED functionality only). To change the time/date, hold the $\frac{\text{SET}}{\text{C}}$ button down for 3 seconds from the main screen to enter the programming menu, and then press + until the time is displayed. Press $\frac{\text{SET}}{\text{C}}$ again, and the time, day of week, month and year may now be modified by using the same process described in section 3.2.

13. TURNING OFF THE PANEL & THERMOSTAT

(Accessible in SIMPLE or ENHANCED functionality) The panel can be switched off by simply using the On/Off switch at the back of the panel. Pairing information will be retained by the thermostat and the panel will continue its previous heating program/setting when switched back on.

"Standby Mode" (OFF) is entered by pressing and holding down the $\frac{\text{MODE}}{\text{Em}}$ and \leq buttons simultaneously for a period of 5 seconds. Afterward, all of the display segments turn off and the thermostat is in "Standby Mode". In this state, the thermostat uses a minimum of battery power and stops all communication with its paired heating panels. The paired heating panels will enter state #4 (continual, red LED) after 5 minutes and stop heating. This function may be used at the end of the heating season to ensure maximum battery life and deactivate the heating system. If any key is pressed on the thermostat afterward, it will restart and the user will be prompted to re-enter the time and date. This function may also be used in SIMPLE mode to set the time and date without replacing battery.



14. SAFETY NOTES:

- Heating panel models W30, W60, W90, W120, and W150 are suitable for wall or ceiling installation and are equipped with mounting brackets to provide support. Please read the installation guidelines before installing the panel.
- The appliance is safe to touch; however, prolonged contact with the panel while it is in operation may cause injury.
- Small children should not be left unattended near the heating panel as prolonged contact with the panel may cause injury.
- If any fluids or foreign object may become lodged within the panel, disconnect it from power and have it checked by a service technician.
- The appliance has an earthed power cord which is to be used with 220V power outlets. In case the power cord or the
 appliance itself becomes damaged, it should be repaired by a professional.
- Do not attempt to disassemble the appliance. It contains many parts and the warranty will become void. Dis-assembly and/ or reassembly should not be done outside the factory or a specialized service center.
- To avoid electrocution, remove the power cord if a defect has been identified, or if the panel is to be moved.
- Protection against overheating and fire hazard: The panel can at instances reach a surface temperature of 125°C. DO NOT cover the panel at any time nor put easily flammable fabrics or other objects directly in front of the panel.
- Before drilling into the wall for installation, first check that the area is free of electrical wires, gas or water pipes or any other obstacles that could be damaged.
- First time use: verify that all of the packaging materials have been removed. In case you notice an odor due to panel operation, switch it off immediately, then identify and remove the source. In case the smell persists, contact your point of sale.
- Do not install the heating panel directly over (covering) its electrical socket.
- Install the panel where its plug will be easily accessible.
- Do not in any case use the heating panel if its glass surface is cracked or otherwise damaged.
- FIRST panels are designed to withstand moderate power drops/surges at voltages between 220V and 250V. Verify before
 use that the panel you are installing is suited for your regional supply voltage. When this would not be the case, do not plug
 in the appliance and contact your supplier. In case the panel is plugged into an outlet with the wrong voltage, or when power
 surges are out of the range as described before, the warranty will NOT cover these damages.
- Do not attempt to clean the heating panel while it is connected to the electrical power supply. First unplug the power cord, and then the appliance may be cleaned with a soft, dry cloth.
- Battery Disposal: Thermostat batteries intended for disposal are considered hazardous waste and may not be included with municipal waste. Please follow your local laws and procedures for proper disposal of these materials.
- The appliance is suitable for use in bathrooms at ZONE 3 or further from water sources. The illustration on the following page is
 for reference. In all cases, be sure that the power outlets in your bathroom are equipped with an RCD (Residual Current
 Device) to protect the electrical circuit.







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