

Control Series Operation Instructions



"Digi II"

Control Models Digi II 60 min and Digi II 24 hr (UL # 1601-11, and 1601-11-1).

Read all instructions carefully before operation. Please leave all instructions and warranty with the owner.

WARNING

Prolonged exposure to elevated temperatures is capable of inducing hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches several degrees above the normal body temperature of 98.6°F. The symptoms of hyperthermia include an increase in the normal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of the hyperthermia include failure to perceive heat, failure to recognize the need to exit the room, unawareness of impending hazard, fetal damage in pregnant women, physical inability to exit the room and unconsciousness.

WARNING

The use of alcohol, drugs, or medication is capable of greatly increasing the risk of fatal hyperthermia.

SECTION 1: GENERAL INFORMATION

These controls are UL approved for permanent installations and electrical connections. Refer to the "Installation and Operations Instructions" for complete information about the heater installation.

WARNING

Do not take a sauna if using alcohol, drugs or medications.

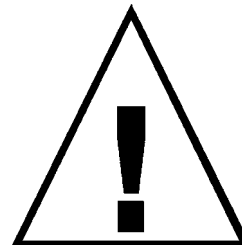
Pregnant women or persons with poor health should consult their physician before using any sauna.

Caution fire hazard: Do not use the sauna room for drying clothes, bathing suits, etc. Do not hang towels above heater or place any object other than the rocks supplied on the heater. If any darkening of the wall around the heater is noticed discontinue sauna use immediately.

Inspect sauna regularly for required maintenance to heater, control and benches. Replace wood surfaces which show any signs of deterioration.

The heater gets extremely hot during operation and should not be touched or burns may result.

Minors should be adequately supervised whenever near a hot or warming sauna.



Control Series Operation Instructions

SECTION 2: OPERATION

Control Overview

Alarms The control is equipped with an alarm that indicates a faulty thermostat sensor and or wire. The control will display "heat sensor cable cut". During the alarm the control will turn power off to the heater. The control display will remain on. Rectify the fault situation and recycle power to heater. If problem persists refer to **Section 5**.

Locking Key Pad The control keypad can be locked. With the control in the Off mode, **press the up arrow key, then down arrow key and then fan key.** "Locked" will be displayed. This will make all keys inactive until the control is unlocked.

To unlock the control repeat the same sequence.

Control Setup:

This setup has **6 different menus.**

To escape from this **Setup Menus**, press the **On/Off** button or the device will **automatically exit** the menu in approx. **4 seconds.**

To enter the **Setup Menu** press **PROG/OK** button and hold down for approx. **3 seconds** until the following appears in the display:

MENU 1
TIME:12:00

Setting the Clock: Press the up arrow and hold down: The minutes and hours will begin to change. When the hour reads the correct time, release the up arrow key and enter minutes by repeatedly pressing the arrow key for each minute. Press **PROG/OK** to save the time in memory.

Next will display:

MENU 2
LANGUAGE: ENGLISH

Setting Language: Press the up or down arrow key repeatedly until the language you desire appears in the display. Press **PROG/OK** to save the Language in memory.

WARNING

Fire sprinkler systems used inside any sauna room should be properly rated for sauna room temperatures.

Do not pour chlorinated pool or spa water on heater. Excessive water use on heater may cause damage and void warranty.

Do not install a shower in the sauna room.

Electric Shock Hazard - High voltage exists within this equipment. There are no user serviceable parts in this equipment. All installation and service to this equipment should be performed by qualified licensed personnel in accordance with local and national codes.

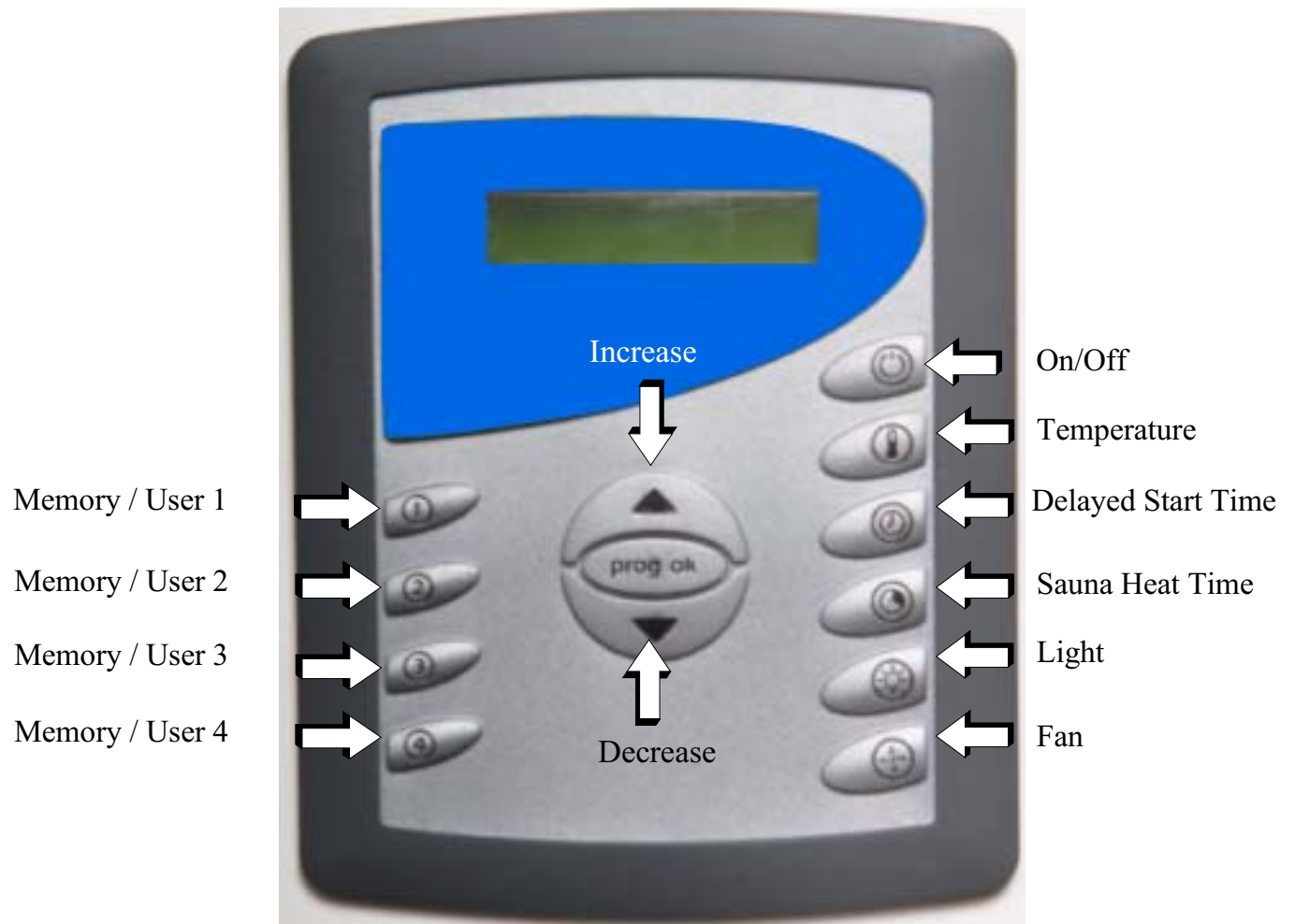
Do not construct sauna room so as to restrict air flow through the bottom of the heater.

Packing the rocks too tightly may cause the heater high limit switch to trip.

Control Series Operation Instructions

SECTION 2: OPERATION, CONTINUED

Digi II 60 min Control UL # 1601-11



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SECTION 2: OPERATION, CONTINUED

Next will display:

MENU 3

OFFSET: T1 0C

Using the arrow key calibration value (0 +/-10C).

Example: After reading the temperature on the thermometer in the sauna, you may have noticed that the temperature reading on the sauna thermometer is lower than the display on the control. Set Offset T1 to +4C to get the displayed temperature to match the thermometer. **(This offset does not change the actual temperature, this is just for indication only.)** Press **PROG/OK**: to save the calibration value.

Next will display:

MENU 4

SMARTSAUNA: OFF

Using the arrow keys, select ON or OFF Press

PROG/OK: to save the setting.

Note: SmartSauna records the temperature changes during a sauna, and based on this information, the control can determine the length of time needed to heat the sauna to reach a set value. **This function is only used in the time delay mode.**

Next will display:

MENU 5

CLOCK: 24 h

Using the arrow keys, select a 12 or 24-hour clock. If a 12-hour clock is selected, AM or PM will appear in the display after the time. Press **PROG/OK**: to save the setting.

Next will display:

MENU 6

TEMPERATURE: C

Using the arrow keys, select the desired temperature scale. (Celsius or Fahrenheit) Press **PROG/OK**: to save the setting.

WARNING

Do not locate benches over heater. Minimum clearance of ceiling above heater 45".

For minimum clearance from heater to wooden surfaces refer to Diagram 1 for distances. The mounting brackets supplied provide the proper clearance from the heater to the wall.

Use only copper wire of the size and type indicated in the Heater Specification Chart and the temperature rating indicated on the heater junction box.

All heaters and controls must be grounded per NEC to prevent electrical shock in case of unit failure.

Electrical outlets or receptacle must not be installed in a sauna room.

A guardrail or fence is required around the heater to prevent burns from accidental contact.

Control Series Operation Instructions


SECTION 2: OPERATION, CONTINUED

Programming Memory (User buttons)


Press **ON/OFF** and the greeting appears in the display and the backlight comes on. Next press **PROG/OK** and the following will appear in the display: The first number indicates start time, the length of sauna duration, and the last number is the desired temperature.

17:30 01:00 The maximum operational time is 60 minutes for the heater.
50C

Note! The start time reading in the display is not saved in the memory slots. Time delay is not a memory option.

Press the **Sauna Heat Time**  button and the hours and minutes (hh:mm) will appear in the display.

Sauna Heat Time:**01:00**The duration can now be set using the arrow keys. When the desired time has been selected, press **PROG/OK** to return to previous screen.

Press the **TEMPERATURE**  button and the temperature value will appear in the display current temperature setting: **50C** The temperature can now be set using the arrow keys. When the desired temperature has been selected, press **PROG/OK** and the display will return to the previous screen.

To save the values to memory, press the memory buttons 1. The display will now read:

PROGRAM1
01:00 50C

Press **PROG/OK** once again to return the display to **17:30 01:00**
50C.

To program another memory button go back to the beginning of Programming Memory (user buttons). Press **ON/OFF** to exit the programming mode.

Review When the device is in Off mode, you can review your programmed values by pressing the memory buttons.

Control Series Operation Instructions

SECTION 2: OPERATION, CONTINUED

Setting Time Delay without Saunasmart:


The control is in the Off mode:

Press **ON/OFF** and A greeting appears in the display and the backlight comes on.

Press **PROG/OK** and the following will appear in the display start time, sauna length, and temperature.

17:30 01:00 The maximum operational time is 60 minutes for the heater.


90C


Press Time Delay  button and the hours and minutes (hh:mm) will appear in the display.

START:

12:00

The start time can now be set using the arrow buttons. When the desired time has been selected, press **PROG/OK** and the display will return to the previous screen.

Press the **Sauna Heat Time**  button and the hours and minutes (hh:mm) will appear in the display. Sauna Length:**01:00** The duration can now be set using the arrow keys. When the desired time has been selected, press **PROG/OK** to return to previous screen.

Press the **TEMPERATURE**  button and the temperature value will appear in the display current temperature setting:**50C** The temperature can now be set using the arrow keys. When the desired temperature has been selected, press **PROG/OK** and the display will return to the previous screen.

Press **PROG/OK** and hold down for about 3 seconds until the following appears in the display:

15:00

15:00 is the current time

17:30 SAUNA

17:30 is the start time, when the sauna is automatically turned on.

Setting Time Delay with Saunasmart:

Saunasmart means choosing the time to enter the hot room, not the time to turn the heater on. The system will calculate when to turn on in relation to entry time. The control will be able to determine how long the system needs to run to reach set temperature. This function usually takes 3 heat cycles to get time versus temperatures memorized.

The entire programming process is the same as "Setting Time Delay without Saunasmart" except for the final step of programming display.

15:00

15:00 is the current time

17:30 SMART

17:30 is the time the room is ready to enter.

Control Series Operation Instructions

SECTION 2: OPERATION, CONTINUED

Setting Program for a Repeat Sauna Everyday:

Taking a sauna every day at the same time automatically without reprogramming, do the following:

Press **PROG/OK**. The following will appear in the display start time, duration and temperature.

17:30 **01:00** The maximum allowable operation time for the heater to operate is 60 minutes.
90C

Press **PROG/OK** and hold down for about 3 seconds until the following appears in the display:

15:00 **15:00** is the current time
17:30 SMART or **Sauna** **17:30** is the time the room is ready to enter or turn on.

Daily Operations of Memory (User buttons):

Press **ON/OFF** and the greeting appears in the display and the backlight comes on.

Press the appropriate button to start operation of the **Light** and **Fan** ; press again to shut off. The corresponding symbols will appear in the display.

Press **Memory Button 1 - 4**: The system will turn on and operate according to the button's preset time and temperature until program has expired. The control will then turn off.

Daily Operations Using Time Delay Functions:

Press **ON/OFF** and the greeting appears in the display and the backlight comes on.

Next press **PROG/OK** and the following will appear in the display start time, duration and temperature.

17:30 **01:00** The maximum operational time is 60 minutes for the heater.
90C

If all information is correct: Press **PROG/OK** and hold down for about 3 seconds until the following appears in the display: Leave the control on and return when system is ready.

15:00
17:30 SMART (or **Sauna** depending on what delay mode is selected)

If the control settings are not correct, go to the "**Setting Time Delay**" portion of the manual to program control and then return to portion when completed.

Control Setup for Control Model Digi II 24 hr (UL # 1601-11-1):

Control Model Digi II 24 hour is for commercial applications with an attendant on duty. This control allows the sauna to heat for a maximum of 23 hours. Refer to 1601-11 control operation for programming.

Control Series Operation Instructions

SECTION 3: HOW TO TAKE A SAUNA

- When taking a sauna, allow time to relax completely.
- Remove clothing and jewelry...if required, wear a towel loosely.
- After 10 minutes or when perspiration begins, leave sauna and relax in dressing area...follow with a cool shower.
- Cooling time should equal time spent in sauna. Enter sauna room again and stay 5 or 10 minutes.
- Repeat the cycle 2 or 3 times; end with a brisk shower...rinse in cool water.
- Dress when completely dry and perspiration has stopped.
- Some sauna bathers enjoy the soothing effect of steam by splashing water on the heated sauna rocks. Use only one dipper full (approx. ½ cup) at a time and take care to keep clear of the steam as it rises off the rocks.
- Do not smoke, exercise or drink alcoholic beverages in the sauna room.
- Do not pour chlorinated pool or spa water on the heater or corrosion damage may result.

SECTION 4: MAINTENANCE

The sauna, like a bathroom, should be kept clean and odor free.

Towels or mats should always be used on benches and floor as perspiration otherwise penetrates the soft wood.

Air out the sauna often by keeping the door and vents open when the sauna is not in use. Saunas that are in daily use should be washed down at least once a week to keep them clean and the air fresh. Duckboard should be removed from the sauna, the sauna floor mopped and dried in a conventional manner, and the duckboard thoroughly scrubbed and dried before returning to the sauna room. The sauna heater should be wiped down occasionally with a damp cloth to remove lint and dust. The rocks should be removed once a year for cleaning and small or crumbled rocks replaced.

To clean and remove perspiration stains, use soap or detergent in warm water, best applied with a scrub brush. Badly soiled surfaces may require sanding. Sand paper wrapped around a wooden block works well.

Benches and supporting structure must be inspected annually for potential deterioration due to age, dry rot or abuse. Any boards with signs of deterioration should be replaced immediately to avoid possible injury.

SECTION 5: TROUBLESHOOTING

For troubleshooting or service questions call 1-888-780-4427 and ask to speak with Technical Support. Prior to calling please have the Model & Type # available. You may also email us at techsupport@saunatec.com



Shower



Sauna (10 - 15 min.)



Shower or swim



Rest (10 - 15 min.)



Relax with juice or water

Like it?
Do it again and
feel great.