

# Statim 7000



# Service Setup

# Statim 7000 Service Setup

**Service setup mode** – To enter the **Service Setup Mode**, turn power switch ON while holding down Unwrapped and Wrapped buttons.

The **Service Setup Mode** is password protected; a password must be entered to continue. The default password is Unwrapped, Wrapped, Rubber and Plastics, Stop buttons pressed in this order. If the password has been changed the backdoor password is, Unwrapped, Wrapped, Unwrapped, Wrapped buttons pressed in this order.

```
>Calibration
Time/Date Setup
```

```
Language Setup
Unit ID Setup *
Set cycle counter
Conductivity Setup
Water.Cnd Tmp. Comp
Last Printout *
Stored CF Printouts *
Clear CF Printouts *
Display last CF#
Devices Test On/Off
Temperature Offset
Validation Offset
Repeater mode
RS232 *
End of Line CR/LF *
Serial Port Bitude *
Printer user ° char *
Factory default
Drying – Unwrapped
Drying – Wrapped
Drying – R&P
Drying - Extra
Air Filter Warning
Water Filter
Replace Filter
Steri. End buzzer
Upgrade Firmware
Change Password
Backup NVRAM
Restore NVRAM
Save and Exit
Exit
Production Cycle
```

**\* Only used when Statim is connected to a Printer or Data Logger**

**Keypad:**

Unwrapped	Select next item in the menu
Wrapped	Select previous item in the menu
Rubber and Plastics	Enter the indicated sub menu selection
Stop	Exit menu to normal mode of operation

**Calibration** – Select calibration to run chamber and validation thermocouple calibration cycles only.

**Time/Date Setup Mode** – Set the proper time and date

18:00	07/09/2008
HH:MM	MMDD/YYYY

**Keypad:**

Unwrapped	Increase current field (the flashing value on the display)
Wrapped	Decrease current field (the flashing value on the display)
Rubber and Plastics	Select next field
Stop	Save & exit menu to normal mode of operation

**Language Setup** – Display information in your desired language

N. A. ENGLISH
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**Available Languages**

N. A. English (North American English)  
U. K. English (United Kingdom English)  
Francais (French)  
Deutsch (German)  
Espanol (Spanish)  
Italiano (Italian)  
Dansk (Danish)  
Portugues  
Nederlands  
Japanese  
Svenska (Swedish)  
Polski (Polish)  
Magyar (Hungarian)  
Cesky (Czech)  
Norsk (Norwegian)  
Islenska (Iceland)  
Slovenscina (Slovak)  
Eesti (Estonian)  
Lietuviu K. (Laitivan)  
Slovenian (Slovenia)  
Romana (Romanian)

**Keypad:**

Unwrapped	Select next language
Wrapped	Select previous language
Rubber and Plastics	If Repeater mode is ON, this key will scroll through all the available display messages of the chosen language.
Stop	Save & exit menu to normal mode of operation

**Unit ID Setup** – Associate unit with an ID number **(Used with Printer)**

Unit # :
000

**Keypad:**

Unwrapped	Decrease current field (the flashing value on the display)
Wrapped	Increase current field (the flashing value on the display)
Rubber and Plastics	Select next digit
Stop	Save & exit menu to normal mode of operation

**Set cycle counter** – Adjust the recorded number of cycles ran

Cycle Number
000000

**Keypad:**

Unwrapped	Decrease current digit
Wrapped	Increase current digit
Rubber and Plastics	Select next digit
Stop	Save & exit menu to normal mode of operation

**Conductivity Setup** – To display detected water quality and adjust low and high thresholds.

CD= x.xuS/NNN/y.yppm
L R H=HH.H G=G.GG

**Screen Representation**

x.x	Water conductivity in uS (micro-Siemens)
NNN	Water conductivity in ADC (Analog to Digital converter) counts (0...255)
y.y	Water quality in ppm (parts per million)
L	“L” is displayed when water level switch is activated, “-” when the switch is not active
R	“R” is displayed when water reservoir reed switch is activated, “-” when the water reservoir reed switch is not activated.
HH.H	High value threshold (Bad water threshold) <b>default 10uS</b>
	Values larger than this trigger “Bad water quality” error
G.GG	Water conductivity circuit gain <b>default 1.00</b>

**Note: Statim 7000 does not use the conductivity reading to trigger the “No Water, Refill Reservoir” message. There is a float sensor for that.**

**Keypad:**

Unwrapped	Increase current field
Wrapped	Decrease current field
Rubber and Plastics	Move to next field
Stop	Exit menu to normal mode of operation

**Water Cnd Tmp Comp** - To enable or disable water conductivity temperature compensation

```
>Water Cnd Tmp Comp
On
```

Off

**Keypad:**

Unwrapped	Select next option Second line shows the new value
Wrapped	Select previous option. Second line shows the new value
Rubber and Plastics	Select and return to main menu
Stop	Exit, without saving, to normal mode of operation

**Last Printout** – Printer reprints last cycle and unit returns to normal mode of operation  
**(Used with Printer)**

**Stored CF Printouts** – Printer prints saved cycle fault printouts and unit returns to normal mode of operation. **(Used with Printer)**

The saved CF printouts are sent to the printer or data logger only when either one is attached and configured. The following types of errors are saved:

- CF's
- Water quality or Water level low errors
- Cycle interrupted due to errors (##)

**Clear CF Printouts** – Reset Cycle Fault printout list **(Used with Printer)**

```
>Clear CF Printouts
No
```

Yes

**Keypad:**

Unwrapped	Select next option Second line shows the new value
Wrapped	Select previous option. Second line shows the new value
Rubber and Plastics	Select and return to main menu
Stop	Exit, without saving, to normal mode of operation

**Display last CF#** - Show the last Cycle Fault that occurred

```
>Display last CF#
## (#####)
```

**Screen Representation**

##	Last recorded CF number
(#####)	Cycle counter number for last CF

**Keypad:**

Rubber and Plastics	Return to main menu
Stop	Exit to normal mode of operation

## **Devices Test On/Off** – Toggle the unit's devices on or off

>Devices Test On/Off  
Pump Off

Valve Off  
Compressor Off  
Yellow LED Off  
Extra 1L Off  
Extra 2L Off  
Valve 2 Off  
Fan Off

### **Keypad:**

Unwrapped	Select next option. Second line shows the new value
Wrapped	Select previous option. Second line shows the new value
Rubber and Plastics	Toggle On/Off selected device
Stop	Return to main menu

## **Chamber Temperature Offset** – View the offset of the chamber thermocouple

>Temperature Offset  
##

### **Screen Representation**

## Offset value

### **Keypad:**

Rubber and Plastics	Return to main menu
Stop	Exit to normal mode of operation

## **Validation Offset** – View the offset of the validation thermocouple

>Validation Offset  
##

### **Screen Representation**

## Offset value

### **Keypad:**

Rubber and Plastics	Return to main menu
Stop	Exit to normal mode of operation

## **Repeater mode** – Enable or disable unit to run cycles continuously

>Repeater mode  
Off

On

### **Note: Repeater Mode must be turned OFF when testing is complete**

### **Keypad:**

Unwrapped	Select next option. Second line shows new value
Wrapped	Select previous option. Second line shows new value
Rubber and Plastics	Select and return to main menu
Stop	Exit, without saving, to normal mode of operation

**RS232** – To select which serial device to attach (**Used with Printer**)

```
>RS232
N/A
```

Serial Printer  
USB FLASH/MSD

**Keypad:**

Unwrapped                      Move to next option, second line shows the new value  
 Wrapped                        Move to previous option, second line shows the new value  
 Rubber and Plastics        Save and return to main menu  
 Stop                                Exit menu to normal mode of operation without saving

**End of Line CR/LF** – Configure the printout layout (**Used with Printer**)

```
>End Of Line CR/LF
CR/LF
```

-  
 CR  
 This only needs to be set if a serial printer is attached to the serial port.

**Available options:**

-                      No line terminator is sent after each line. To be used with printer that accepts only 20 characters per line and automatically advances to next line. **Should be used with the STATprinter.**  
 CR                    A <CR> is sent at the end of the line. To be used with printers that advance to beginning of next line when a CR is received.  
 CR/LF                A <CR><LF> is sent at the end of the line. To be used with printers that translate advance to beginning of next line only when LF is received.

**Keypad:**

Unwrapped                      Select next option. Second line shows the new value  
 Wrapped                        Select previous option. Second line shows the new value  
 Rubber and Plastics        Save & exit to main menu  
 Stop                                Exit and return to normal mode of operation

SciCan Suggested External Printers	End Of Line CR/LF	Serial Port Bit Rate	Printer user ° char
Epson TM-U220D (C31C515603)	CR/LF	9600	248 [0xF8]
Citizen IDP-3110-40 RF 120B	CR	9600	N/A
Star Micro SP212FD42-120	CR	9600	210 [0xd2]
Star Micro SP216FD41-120	CR/LF	9600	210 [0xd2]
Star Micro SP512MD42-R	CR/LF	9600	210 [0xd2]

**Serial Port Bit Rate** – Choose bit rate for device connected to the serial port  
(Used with Printer)

```
Serial Port Bit Rate
9600
19200
57600
115200
1200
2400
4800
```

If USB FLASH/MSD is selected as the RS232 device, a Serial Port Bit Rate selection of 9600 will be required for the Data Logger to be operational.

**Keypad:**

Unwrapped	Select next value
Wrapped	Select previous value
Rubber and Plastics	Save & return to main menu
Stop	Exit, without saving, and return to normal mode of operation

**Printer user ° char** – Setting to print a °C sign (Used with Printer)

```
Printer user ° char
dd [0xhh]
```

dd decimal value for selected char-default 32  
hh hex value for the selected char-default 20

**Keypad:**

Unwrapped	Increase value by one
Wrapped	Increase value by ten
Rubber and Plastics	Select and return to main menu
Stop	Exit, without saving, and return to normal mode of operation

**Factory default** – Reset to factory default settings

```
>Factory default
No
```

Yes, Reset NVRAM!

This function resets the NVRAM to factory default settings. The chamber and voltage calibration offsets and conductivity settings will be reset. The cycle counter will not be reset.

**Keypad:**

Unwrapped	Select next option. Second line shows the new value
Wrapped	Select previous option. Second line shows the new value
Rubber and Plastics	Save and return to main menu
Stop	Exit, without saving, and return to normal mode of operation

**Drying – Unwrapped** – Set Unwrapped Cycle drying time between 0 & 30 minutes

>Drying - Unwrapped  
Time: 12 minutes

**Keypad:**

Unwrapped	Increase time by one minute
Wrapped	Decrease time by one minute
Rubber and Plastics	Save and return to main menu
Stop	Save & exit menu to normal mode of operation

**Drying – Wrapped** – Set Wrapped Cycle drying time between 10 & 30 minutes

>Drying - Wrapped  
Time: 12 minutes

**Keypad:**

Unwrapped	Increase time by one minute
Wrapped	Decrease time by one minute
Rubber and Plastics	Save and return to main menu
Stop	Save & exit menu to normal mode of operation

**Drying – R&P** – Set Rubber & Plastics Cycle drying time between 0 & 30 minutes

>Drying – R&P  
Time: 12 minutes

**Keypad:**

Unwrapped	Increase time by one minute
Wrapped	Decrease time by one minute
Rubber and Plastics	Save and return to main menu
Stop	Save & exit menu to normal mode of operation

**Drying – Extra** – Sets drying time between 1 & 30 minutes for Air Dryer Only Cycle

>Drying – Extra  
Time: 12 minutes

**Keypad:**

Unwrapped	Increase time by one minute
Wrapped	Decrease time by one minute
Rubber and Plastics	Save and return to main menu
Stop	Save & exit menu to normal mode of operation

**Air Filter Warning** – Reset warning indicator when Air Filter is replaced.

>Air Filter Warning  
Do not Reset

Yes, Reset

**Water Filter** – Set Statim for Water Filter or Water Bypass Cartridge

>Water Filter  
Installed

Not Installed

**Replace Filter** – Reset Statim when Water Filter is replaced.

>Replace Filter  
Do not replace

Yes, replace

**Steri. End buzzer** – Set length of time buzzer will sound a end of sterilization

>Steri. End buzzer  
0s

15s

30s

Max

**Upgrade Firmware** – Not used at this time.

**Change Password** – Change the password required to access the service menu

The unit will query for a 4 key password

Type New Password  
\*\*\*\*

The unit will require that the user re-enter the same 4 key password

Type New Password  
\*\*\*\*

The unit will confirm that the password has been changed or if changing the password failed, the unit will again query for a new 4 key password

Password Changed

In case the changed password is lost a backdoor password can be used: Unwrapped, Wrapped, Unwrapped, Wrapped in this order.

**Backup NVRAM** – Saves a copy of the unit's current settings

>Backup NVRAM

No

Yes

**Keypad:**

Unwrapped	Select next option Second line shows the new value
Wrapped	Select previous option. Second line shows the new value
Rubber and Plastics	Select and return to main menu
Stop	Exit, without saving, to normal mode of operation

**Restore NVRAM** – Restores the previously saved unit settings into the NVRAM

>Restore NVRAM

No

Yes

**Keypad:**

Unwrapped	Select next option Second line shows the new value
Wrapped	Select previous option. Second line shows the new value
Rubber and Plastics	Select and return to main menu
Stop	Exit, without saving, to normal mode of operation

**Save and Exit** – Saving settings and return to normal mode of operation

Upon selection, current settings are saved and unit restarts in normal mode of operation

**Exit** – Exit menu without saving settings

Upon selection, current settings are discarded, not saved and unit restarts in normal mode of operation

**Production Cycle** – For manufacturing use only