

# *its*<sup>TM</sup> *solar*

## SR868C8 Solar Controller Quick Setup Guide



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ITS recommends that the solar water heating systems installation be done by a person with knowledge and experience in the field of plumbing and electrical. Installing the solar water heating systems in a manor different from prescribed in this manual will render the warrantee on the unit null and void.

### PLEASE NOTE THE FOLLOWING

- Please read through the Installation and Operating Manual before using this manual.
- This manual serves as a tool to be used in conjunction with the Installation and Operating manual provided with the solar controller package.
- This manual serves as a quick default guide, for easy setup of the solar controller SR868C8.
- All steps below will ensure that the controller is setup to a default standard for most solar installations.

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## 1 TIME AND DAY SETTINGS

### 1.1 Setting the current time

Press **CLOCK** the hour indicator begins to flash  
Press + or – to adjust the hour to the current hour  
Press **CLOCK** the minutes indicator begins to flash  
Press + or – to adjust the minute to the current minute  
Press **CLOCK** the day indicator begins to flash  
Press + or – to adjust the day to the current day  
Press **CLOCK** to complete the current time setting

### 1.2 Setting the electric element backup timer and time windows (TH1o=ON; TH1F=OFF)

Press **SET** and **THET** appears  
Press **SET** again and the first time window on appears TH1 o  
Press **SET** and the hour indicator begins to flash  
Press + or – to adjust the hour indicator for the first on time window  
Press **SET** again and the minute indicator begins to flash  
Press + or – to adjust the minute for the first on time window  
Press **SET** again and the on temperature for electric backup begins flashing  
Press + or – to adjust the on temperature for electric backup  
Press **ESC TH1 o** appears with the first on time you have set (not flashing)  
Press + and **TH1F** appears with a first time window off time (not flashing)  
Press **SET** and the hour indicator begins to flash  
Press + or – to adjust the off hour for the first time window  
Press **SET** the minute indicator begins to flash  
Press + or – to adjust the first time window off minute  
Press **SET** again and the off temperature begins to flash  
Press + or – to adjust the first time window electric heating off temperature  
Press **ESC** and **Th1F** appears with the first time window “off time setting” (not flashing)  
Press + and **TH2o** appears repeat the steps above for the second and third time windows

**Note:** All time windows must be active at least once in a 24 hour period and must not overlap one another.

## 2 UNLOCKING THE PARAMETER TREE

The parameter tree is password protected and you will need to unlock the tree by entering the password. The default password is **0000**. To change the passwords refer to step 8.

When the display is in standby condition, press the following buttons in sequence, to unlock the controller's parameter tree.

Press **SET** then the symbol **thET** appears in the upper right hand corner.  
Press + then the symbol **PWD** appears with **0000** under it  
Press **SET** again and the first **0** starts to flash  
Press + or – to change first digit

Press **SET** and the second **0** starts to flash  
Press **+** or **-** to change the second digit  
Press **SET** again and the third number starts to flash  
Press **+** or **-** to change the third value  
Press **SET** again and the fourth number starts to flash  
Press **+** or **-** to change the fourth value  
Press **SET** again **DT 0** appears in the upper right hand corner. This is the first parameter in the parameter tree

### 3 SETTING DT (TEMPERATURE DIFFERENTIAL)

After entering the password and **DT 0** appears, follow the following steps

Press **SET** then a temperature setting appears starts to flash  
Press **+** or **-** to change the value to 08°C  
Press **SET** again and the temperature setting disappears  
Press **+** then **DT F** appears  
Press **SET** and a temperature setting starts to flash  
Press **+** or **-** to change the input to 04°C  
Press **SET** and the temperature setting disappears

### 4 SETTING THE TEMP SETTINGS

After entering the password the symbol **DT 0** appears press **+** until the symbol **TEMP** appears in the upper right hand corner.

#### **EMOF (Collector maximum switch-off temperature)**

Press **SET** then **EMOF** appears with a temperature setting underneath it.  
Press **SET** and the input starts to flash  
Press **SET** again and three lines start to flash ( - - - )  
Press **ESC** again and the lines stop flashing.

#### **EMON (Collector maximum switch - on temperature)**

Press **+** and **EMON** appears with a temperature setting underneath it  
Press **SET** and the input start to flash  
Press **SET** again and the tree lines start to flash ( - - - )  
Press **ESC** and the lines stop flashing

#### **CMX (Maximum temperature of collector)**

Press **+** and **CMX** appears with a temperature setting underneath it  
Press **SET** and the input starts to flash  
Press **SET** again and the three lines appear  
Press **ESC** and the three lines stop flashing

### **CMN (Collector Low temperature protection)**

Press **+** and **CMN** appears with a temperature setting underneath it.  
Press **SET** and the input starts to flash  
Press **SET** again and the three lines start to flash ( - - - )  
Press **ESC** and the lines stop flashing

#### **4.1 NB!! CFR Frost Protection: (to be set to 8°C) NB!!**

Press **+** and **CFR** appears with a temperature setting under it  
Press **SET** and the input starts to flash  
Press **+** or **-** to adjust to 8°C  
Press **ESC**

### **SMX (Tank maximum temperature protection)**

Press **+** and **SMX** appears with a temperature setting underneath it  
Press **SET** and the input starts to flash  
Press **+** or **-** to change the input to 75°C (flashing)  
Press **ESC** and the input stops flashing  
REC (Tank re-cooling function)  
Press **+** **REC** appears with **OFF** or **ON** underneath it  
Press **SET** and the input starts to flash  
Press **+** or **-** to change the input to **OFF** (flashing)  
Press **ESC** and the **OFF** Stops flashing

## **5 SETTING THE METRIC OR ISOMETRIC UNITS**

Press **+** and **C\_F** appears  
Press **SET** and the input starts to flash  
Press **+** or **-** to change the input to °C  
Press **SET**  
Press **ESC** and **TEMP** appears

## 6 SETTING THE FUN PARAMETERS (AUXILIARY FUNCTIONS)

When the controller window displays **TEMP** press the **+** key and **FUN** appears.

Press **SET** and **DVWG** appears with **ON** or **OFF** underneath it

Press **SET** and the input starts to flash

Press **+** or **-** to change the input to **OFF** (flashing)

Press **SET** and the input (**OFF**) stops flashing

Press **+** then the symbol **CIRC** appears with a temperature setting under it

Press **SET** and the input starts to flash

Press **SET** again and the three lines start to flash ( - - - )

Press **ESC** and the lines stop flashing

Press **+** then **BYPA** appears with an temperature setting under it

Press **SET** and the input starts to flash

Press **SET** again and the three lines start to flash ( - - - )

Press **ESC** and the lines stop flashing

Press **ESC** again and **FUN** appears

## 7 SETTING PARAMETER HND (MANUAL TEST OPERATIONS)

When the symbol **FUN** appears in the controller window press **+** then the parameter **HND** appears.

**Note:** all the parameters in **HND** must be **OFF**

Press **SET** and **HND1** appears with **OFF** or **ON** under it

Press **SET** and the input starts to flash

Press **+** or **-** to change the input to **OFF** (flashing)

Press **ESC** and the input stops flashing

Press **+** and **HND2** appears with off under it

Press **SET** and the input starts to flash

Press **+** or **-** to change input to **OFF** (flashing)

Press **ESC** and the input stops flashing

Press **+** and **HND3** appears with **OFF** or **ON** under it

Press **SET** and the input starts to flash

Press **+** or **-** to change the input to **OFF** (flashing)

Press **ESC** and the input stops flashing

Press **+** and **HND4** appears with **OFF** or **ON** under it

Press **SET** and the input starts to flash

Press **+** or **-** to change the input to **OFF** (flashing)

Press **ESC** and the input stops flashing

Press **ESC** again and the symbol **HND** appears

## 8 SETTING THE PASSWORD

**Warning:** Please make sure the password changes you are about to make is necessary, do not lose or forget the password this will make it impossible to change parameters in the future or to fine tune the controller to the system.

**When the parameter HND appears in the parameter tree press the + key, then the symbol PASS will appear**

Press **SET** and **PWDC** appears with **0000** under it with the first **0** flashing

This is the current password input setting the default password is **0000**

Press **+** or **-** to change the value of the first digit

Press **SET** and the second digit starts to flash

Press **+** or **-** to change the value of the second digit

Press **SET** and the third digit starts to flash

Press **+** or **-** to change the value of the third digit

Press **SET** and the fourth digit starts to flash

Press **+** or **-** to change the value of the fourth digit

Press **SET** and the symbol **PWDN** with the first digit flashing

Press **+** or **-** to change the first digit of your new password

Press **SET** and the second digit starts to flash

Press **+** or **-** to change the value

Press **SET** and the third digit starts to flash

Press **+** or **-** to change the value

Press **SET** and the fourth digit starts to flash

Press **+** or **-** to change its value

Press **SET** again and **DWDG** appears with four digits under it with the first one flashing

**This is where you confirm your new password by entering it again**

Press **+** or **-** to change the value of the first digit

Press **SET** and the second digit starts to flash

Press **+** or **-** to change the value of the second digit

Press **SET** and the third digit starts to flash

Press **+** or **-** to change the value of the third digit

Press **SET** and the fourth digit starts to flash

Press **+** or **-** to change the value of the fourth digit

Press **SET** and **PWOK** will appear if your password has been changed successfully