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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 manner 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 time window
Press SET again and the minute indicator begins to flash
Press + or – to adjust the minute for the first 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