

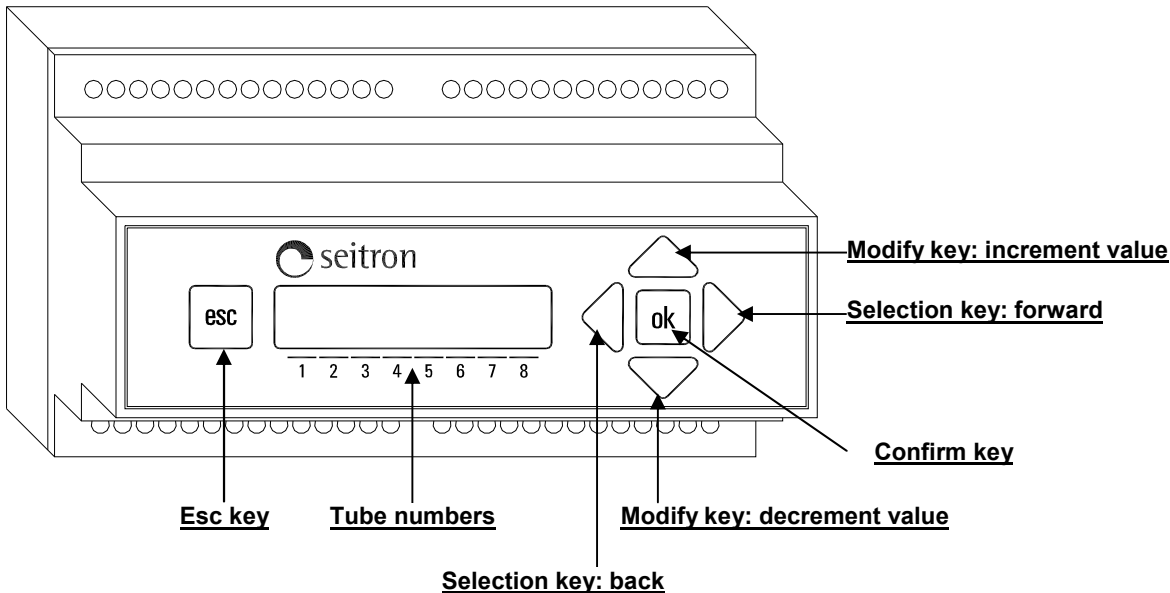
# TT401M



## DIGITAL CONTROLLER FOR RADIANT TUBES

- 230V~ power supply
- Controls up to 4 zones
- Functions: Comfort, Economy, Antifreeze
- Full freedom to choice of parameter configuration
- Backlit 2 x 16 character LCD Display
- 9 module DIN-rail mounting

Via del Commercio, 9/11  
 36065 Mussolente (VI)  
 Tel.: +39.0424.567842  
 Fax.: +39.0424.567849  
<http://www.seitron.it>  
 e-mail: [info@seitron.it](mailto:info@seitron.it)



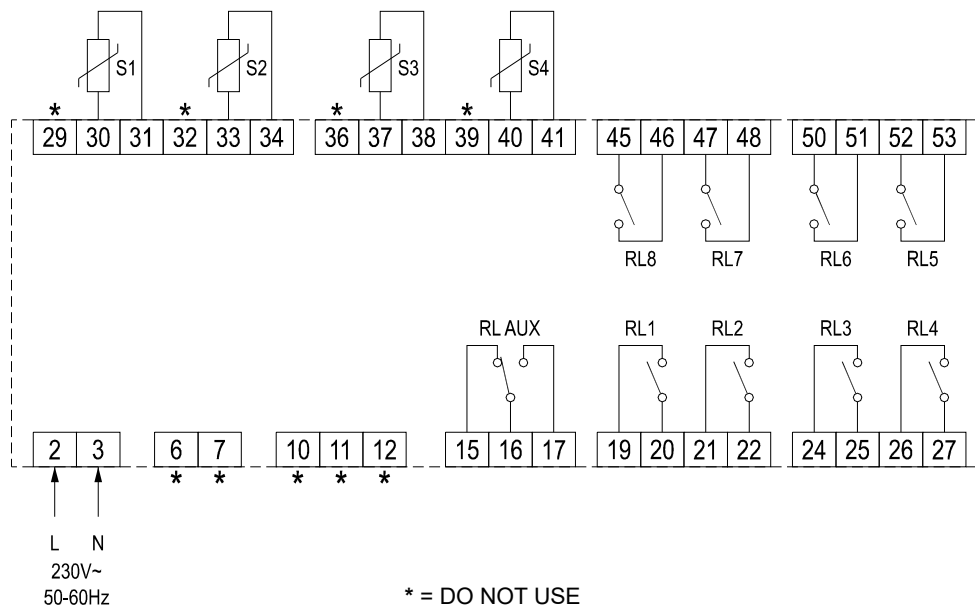
### INSTALLATION

This appliance is designed for mounting on a 9 module DIN rail.

### ⚠ WARNING

- Do not couple sensor cables with power cables. Use a two-pole free braid shielded wire with a minimum cross-section area of 1.5 mm<sup>2</sup> and maximum length of 25 m.
- The appliance must be wired to the electric mains through an omnipolar switch with a contact separation of at least 3 mm in all poles in compliance with the current safety standards.
- Installation and electrical wiring of this appliance must be made by qualified technicians and in compliance with the current standards.
- Before wiring the appliance be sure to turn the mains power off.

### WIRING DIAGRAM



### TYPE OF SYSTEM

#### "1 ZONE 8 TUBES"

Sensor S1 controls relays: RL1, RL2, RL3, RL4, RL5, RL6, RL7, RL8.  
 Sensors S2, S3 and S4 must not be connected.

#### "2 ZONES 4 TUBES"

Sensor S1 controls RL1, RL2, RL3 and RL4 relays.  
 Sensor S2 controls RL5, RL6, RL7 and RL8 relays.  
 Sensors S3 and S4 must not be connected.

#### "4 ZONES 2 TUBES"

Sensor S1 controls RL1 and RL2 relays.  
 Sensor S2 controls RL3 and RL4 relays.  
 Sensor S3 controls RL5 and RL6 relays.  
 Sensor S4 controls RL7 and RL8 relays.

#### Auxiliary relay

This relay is activated when one of the RL1-RL8 relays is set on N.C.

\* = DO NOT USE

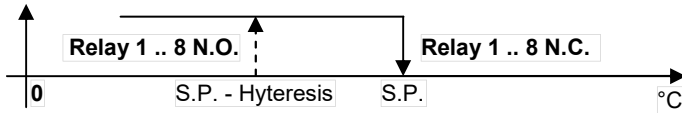
## OVERVIEW

This appliance is a microcontroller equipped thermostat with LCD display, in a 9 module DIN-rail case, for controlling up to 8 tubes arranged in 4 zones.

## OUTPUTS

### Relays 1-8

Functioning logic :



### Auxiliary relay

The 'RL AUX' auxiliary relay is activated only when at least one of the other 'RL1-RL8' relays is in the N.C. position; it will switch back to its N.O. position only when all other relays are in N.O. position.

## ELECTRICAL CONNECTIONS

The controller is normally mains powered with 230V ~ at terminals 2 and 3.

The Normally Closed (NC) output of the auxiliary relay is present at terminals 15 and 16, while the Normally Open (NO) one is not available at terminals 16 and 17. This output can be used for driving general loads such as a siren or a flashing light.

The controller features eight (N.O.) relay outputs with voltage-free contacts, thus giving the user greater freedom to select loads with different operating voltages.

The electrical connections of outputs and sensors must be made according to the wiring diagram in Fig. 1 and to the configuration of the first 'TUBE-ZONE' parameter.

## TECHNICAL FEATURES

Power supply:	230V~ 50-60Hz
Electrical absorption:	< 10.0 VA
Sensor type:	NTC 10K Ohm @ 25°C
Accuracy:	± 1.0°C
Resolution:	0,1°C
Installer password:	0000 .. 9999 (default: 0000).
Contact rating: zone relay:	8 x 2A 250V~ cosφ=1 (SPST)
auxiliary relay:	1 x 5A 250V~ cosφ=1 (SPDT)
Protection grade:	IP 00 (IP 30 in DIN case)
Operating temperature:	0°C .. 40°C
Storage temperature:	-10°C .. +50°C
Humidity limits:	20% .. 80% RH non condensing
Case:	Material: ABS V0 self-extinguishing
	Color: Light grey (RAL 7035)
Size:	158 x 90 x 71 mm (W x H x D)
Mounting:	On 9 module din rail case

## OPERATION

On power on the controller display will show :

```

  Wait Please..
  Firmware: nnnnnn
  1 2 3 4 5 6 7 8
  
```

where ' nnnnnn ' is the number identifying the installed firmware version.

These data are shown on the display for about 3 seconds. After this time the main screen will be displayed (example):

```

  S1 23.0  S2 ----
  S3 ----  S4 ----
  1 2 3 4 5 6 7 8
  
```

On this screen the temperature read by each sensor is highlighted only for the zones which have been configured as active and are equipped with temperature sensor.

From this screen, you can access other two screens by pressing keys '◀' and '▶':

```

  S1 23.0  S2 ----
  S3 ----  S4 ----
  1 2 3 4 5 6 7 8
  
```

↓

press '▶'

↓

```

  Mon Lun  Don  Tue
  21/01/16  05:48
  1 2 3 4 5 6 7 8
  
```

Displays:

- Day of the week
- Date
- Time

↓

press '▶'

↓

```

  Out/Level:
  C C E E A A - -
  1 2 3 4 5 6 7 8
  
```

Displays the operating mode of the single tubes.

Where:

- C = Adjustment of the zone set on **COMFORT**
- E = Adjustment of the zone set on **ECONOMY**
- A = Adjustment of the zone set on **ANTIFREEZE**
- = Adjustment of the zone set on **OFF**

### WARNING!

If the relay is activated, the corresponding output letter will flash.

### Switching on and off (functional)

To switch the controller on or off press and hold for 3 seconds the key ' esc ' located on the left of the display.

If the controller is in an OFF functional status, the following screen will be displayed :

```

  OFF
  Press esc x 3sec
  
```

### Setting the working mode of the single zones

From this menu it is possible to set the regulation mode for each active zone that has been previously configured in the installer parameter "Tube-Zone Config.":

- 'OFF': Turned off
- 'ON' (prg): Turned on as per set time cycle (Default)
- 'ON' (fix): Turned on in fix Comfort mode
- 'A-FREEZE': Turned on in Antifreeze mode

#### SWITCH-ON



```
S1 23.0 S2 ----
S3 ---- S4 ----
```



press 'esc'



```
Level Zone Setup
esc <> ok
```



press 'ok'



```
Zone 1 Tube 1-2
ON(prg) <> ok
```

Zone and Tubes to be set are highlighted.



Press '◀' or '▶': to select the Zone and the Tube or group of Tubes for which you want to change the level.



```
Zone 3 Tube 5-6
ON(prg) <> ok
```



Press 'ok' the regulation mode is blinking



Press '▲' or '▼' to change the regulation mode of the selected Zone/Tubes group.



Press 'ok' to confirm the change.



```
Zone 3 Tube 5-6
ON(fix) <> ok
```



Press 'esc' to go back to the upper level.



```
Level Zone Setup
esc <> ok
```

To quit the configuration menu press the 'esc' key again or automatically after 20s of inactivity.

#### ⚠ WARNING

In the event of faulty sensor, the unit will block the corresponding area. The other areas which are not involved in the fault will continue to function regularly.

### SETTING USER PARAMETERS

The functions accessible to the user are limited and do not allow any data configuration which might affect the system performance and management.

To enter the regulation mode of the controller user parameters, proceed as follows:

```
S1 23.0 S2 ----
S3 ---- S4 ----
```

From the main screen.



press 'ok'



Press '◀' or '▶' to loop through submenus.



```
Set-Point Setup
esc <> ok
```

Set-Point Set



```
Change Time/Date
esc <> ok
```

Date and Time Set



```
Days range Setup
esc <> ok
```

Weekly hour program set.



```
Group Lev xy
esc <> ok
```

Working mode set for each group of days.



```
Summer T. Setup
esc <> ok
```

Summer Time Set.

- Press 'ok' to enter the highlighted submenu.
- Configure the data relating to every single parameter, as shown below.
- Press 'esc' to quit the user parameter setting.

#### Set-point Setup: Setting the set-point temperatures for the single zones

For each zone (Z1, Z2, Z3, Z4) it is possible to set different set-point temperatures associated to the Comfort, Economy and Antifreeze regulation modes.

The table below shows in detail the regulation range related to this menu:

SET-POINT TEMPERATURE SETTING		
Data	Regulation Range	Default
COMF.	5.0 .. 45.0 °C	20.0 °C
ECON.	5.0 .. 45.0 °C	17.0 °C
A-FRZ	OFF / -5.0 .. 20.0 °C	5.0 °C

```
Set-Point Setup
esc <> ok
```



press 'ok'



By pressing '◀' or '▶', you loop through the room temperature regulation modes for each zone which has been configured as active in the first installer parameter "Tube-Zone Config."



Z1 A-FRZ 5.0°C  
esc <> ok

Z1: Zone 1  
A-FRZ: Regulation mode antifreeze  
5.0°C: Regulation temperature in Antifreeze mode



Z1 ECON. 17.0°C  
esc <> ok

Z1: Zone 1  
ECON: Regulation mode Economy  
17°C: Regulation temperature in Economy mode



Z1 COMF. 20.0°C  
esc <> ok

Z1: Zone 1  
COMF: Regulation mode Comfort  
20°C: Regulation temperature in Comfort mode



Z4 COMF. 20.0°C  
esc <> ok

Z4: Zone 4  
COMF: Regulation mode Comfort  
20°C: Regulation temperature in Comfort mode

### Change Time/Date: Clock setup (time/date)

Change Time/Date  
esc <> ok



press 'ok'



dd/mm/yy hh:mm  
27/01/13 12:45

Letters "dd", format for the day, are blinking.



press 'ok'



dd/mm/yy hh:mm  
27/01/13 12:45

The two-digit format for the day is blinking.



Use keys '▲' and '▼' to modify the value.



dd/mm/yy hh:mm  
30/01/13 12:45

The digits for the day are blinking.



Press 'ok' to confirm the modified value.  
Press 'esc' to cancel the change.



press the key '▶' to move the cursor.



dd/mm/yy hh:mm  
30/01/13 12:45

Letters "mm", format for the month, are blinking.



press 'ok'



dd/mm/yy hh:mm  
30/01/13 12:45

The digits for the month are flashing.



Use keys '▲' and '▼' to modify the value.



dd/mm/yy hh:mm  
30/03/13 12:45

The digits for the month are blinking.



Press 'ok' to confirm the modified value.  
Press 'esc' to cancel the change.



Follow the above procedure to set the remaining data for the year (yy), hour (hh) and minutes (mm).



dd/mm/yy hh:mm  
24/03/16 16:10



Press the key 'esc' to return to the upper level.

### ATTENTION

The day of the week ('Monday .. Sunday') is calculated automatically based on the set date.

### Days range Setup: Days range Setup

Days range Setup  
esc <> ok



press 'ok'



### Example of modification of the set-point value related to the Comfort temperature of Zone 1

Z1 COMF. 20.0°C  
esc <> ok



press 'ok'



Z1 COMF. 20.0°C  
esc +- ok

Temperature is blinking to indicate that the value is undergoing a change.



Use keys '▲' and '▼' to modify the temperature.



Z1 COMF. 21.3°C  
esc +- ok



press 'ok'



Z1 COMF. 20.0°C  
esc <> ok

The new value has been stored.



Use keys '◀' and '▶' to select another Zone/ regulation mode.

Press key 'esc' to go back to the upper level.



Set-Point Setup  
esc <> ok

Days Mo-----Su  
esc ok

The current days range setup is displayed.



Press 'ok': the parameter in modify mode is blinking.



Days Mo-Fr Sa Su  
esc +- ok



Use keys '▲' and '▼' to set the grouping of days to be programmed.



The three combinations available are listed below :

I<sup>st</sup> days grouping **Mo-----Su**  
Programming will be the same for all the days of the week.

II<sup>nd</sup> days grouping: **Mo-----Sa Su**  
Programming will be the same from Monday to Saturday, while Sunday is different.

III<sup>rd</sup> days grouping **Mo-Fr Sa Su (Default)**  
Programming will be the same from Monday to Friday, while Saturday and Sunday are different and separated.

**⚠ ATTENTION**

- For each days grouping, the program to be setup shall be the same for all the days of every single group.
- By varying the days set, the default time cycles are reset.
- For each days grouping it is possible to setup to a maximum of 5 time cycles.



Press 'ok' to confirm the modified value.

Press 'esc' to cancel the change.



Days Mo-----Su  
esc ok

**Group Lev xy: Time cycles set**

The controller allows to preset up to a maximum of 5 time cycles, according to the selected grouping of days.

The factory preset time cycles are shown below:

I <sup>st</sup> grouping			
Mo-----Su (Monday .. Sunday)			
	A-FRZ (Antifreeze)	COMF (Comfort)	ECON (Economy)
a1	00:00 .. 06:00		
a2		06:00 .. 12:30	
a3			12:30 .. 14:00
a4		14:00 .. 18:00	
a5	18:00 .. 24:00		

II <sup>nd</sup> grouping			
Mo-----Sa (Monday .. Saturday)			
	A-FRZ (Antifreeze)	COMF (Comfort)	ECON (Economy)
a1	00:00 .. 06:00		
a2		06:00 .. 12:30	
a3			12:30 .. 14:00
a4		14:00 .. 18:00	
a5	18:00 .. 24:00		
Su (Sunday)			
b1	00:00 .. 24:00		

III <sup>rd</sup> grouping			
Mo-----Fr (Monday .. Friday)			
	A-FRZ (Antifreeze)	COMF (Comfort)	ECON (Economy)
a1	00:00 .. 06:00		
a2		06:00 .. 12:30	
a3			12:30 .. 14:00
a4		14:00 .. 18:00	
a5	18:00 .. 24:00		
Sa (Saturday)			
b1	00:00 .. 06:00		
b2		06:00 .. 12:30	
b3	12:30 .. 24:00		
Su (Sunday)			
c1	00:00 .. 24:00		

Alternatively, if the time cycles do not represent the desired program, it is possible to change them manually as follows:

## Modification of time cycles

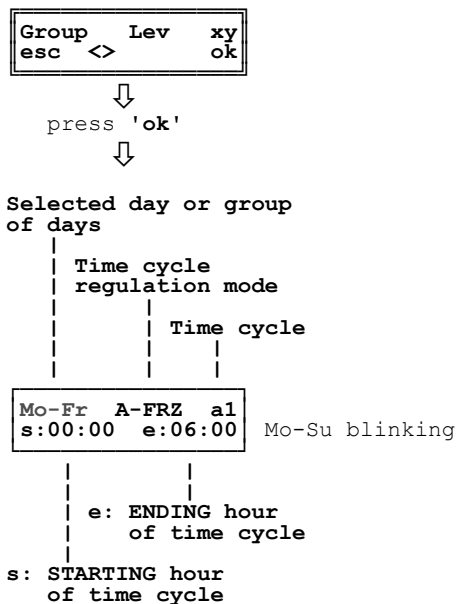
### NOTE

- You are allowed to change only the **ENDING** hour of the time cycles as the starting hour has already been fixed (to 00:00 for the first time cycle and to the **ENDING** hour of the previous time cycle for the other ones).
- For each cycle time, when the **ENDING** hour exceeds the **STARTING** hour stored in the following time cycle or even one or more cycles are skipped, the **STARTING** hour of the following time cycle is automatically changed with the **ENDING** hour of the previous time cycle.
- If the end of any time cycle is set at 24:00, the programming for that day (or days group) shall automatically end; therefore, the following time cycles will no longer be displayed.
- In the decrement phase, the **ENDING** hour of the current time cycle is limited by the **STARTING** hour of the previous time cycle. To modify the hours of the previous time cycle, select the relevant time cycle.

### ⚠ ATTENTION

- Please note that switch-on times are subject to the provisions of law depending on the location where the system is installed. Setting of such times and the overall switch-on duration is responsibility of the installer, property manager or single owner of the installation. Please refer to the City Council's minutes of the Municipality where the system is installed for any further information.

To change time cycles, access the following screen:



### ⚠ ATTENTION

For programming, simply follow these steps :

- Press '◀' or '▶' to select the day or group of days, the regulation mode and the time cycle.
- Press 'OK' to enter the modify mode for the selected parameter which starts blinking alternately with the word 'set'
- Press '▲' or '▼' to change the selected parameter data.
- Press 'OK' again to confirm the modification.

To exit the modify mode without saving the change press the 'esc' key or wait for 20 sec. without pressing any key.

Press the 'esc' key twice to exit the modify mode without saving the changes only for the parameter of the day or group of days.



## ① Selection of days / group of days

press 'ok'



Mo-Fr A-FRZ a1  
s:00:00 e:06:00

Words **Mo-Su** and **set** are alternately displayed to indicate the modification mode.



Use keys '▲' and '▼' to modify the value.



Mo-Fr A-FRZ a1  
s:00:00 e:06:00



Press 'ok' to confirm the modified value.

To exit the modify mode without saving the modification, press the 'esc' key or wait for 20 sec. without pressing any key.

## ② Regulation mode Selection/ Setting

### ⚠ ATTENTION

In order to change the temperature regulation mode of a certain time cycle, first select the relevant time cycle changing hours if necessary and only then modify the regulation mode.



Press '▶' to select the regulation mode in the selected time cycle ('b1' in the example).



Sa A-FRZ b1  
s:00:00 e:06:00

A-FRZ is blinking



press 'ok'



Sa A-FRZ b1  
s:00:00 e:06:00

The display shows the words **A-FRZ** and **set** to indicate the modify phase.



Use keys '▲' and '▼' to change the regulation mode through:

**A-FRZ**: Antifreeze.

**ECON**: Economy.

**COMF**: Comfort.



Sa COMF b1  
s:00:00 e:06:00

Press 'ok' to confirm the modified value.

To exit the modify mode without saving the change, press the 'esc' key or wait for 20 sec. without pressing any key.

## ③ Time cycle ending hour setup



Press '▶' to select the first available time cycle.



Sa COMF b1  
s:00:00 e:06:00

b1 and e are blinking



press 'ok'



↓

```
Sa      COMF  b1
s:00:00 e:06:00
```

The display shows words **b1** and **set** alternately, to indicate the modify mode while letter **e** is flashing.

Press '**◀**' or '**▶**' to select the time cycles for which you want to change the regulation time.

↓

```
Sa      COMF  b2
s:06:00 e:12:30
```

Words **b2** and **set** are displayed alternately, to indicate the modify mode while letter **e** is blinking.

Use keys '**▲**' and '**▼**' to modify the ENDING hour for the selected time cycle.

↓

```
Sa      COMF  b2
s:06:00 e:15:00
```

Press '**ok**' to confirm the modified value.

To exit the modify mode without saving the change, press the '**esc**' key or wait for 20 sec. without pressing any key.

### ⚠ ATTENTION

Once the selection of a time cycle is confirmed, to modify the relevant temperature regulation mode proceed as described in point ②.

#### Summer T.: Summer time set

You may choose to enable the automatic switch from Daylight Saving Time to Standard Time and back or use the manual mode (Summer Time is disabled).

Changeover dates are set out by the European Community:

Summer Time: at 03:00 of the last Sunday of March.

Standard Time: at 02:00 of the last Sunday of October.

↓

```
Summer T. Setup
esc <>      ok
```

Press '**ok**'

↓

```
Summer T. Manu
esc      +- ok
```

The current setting is displayed: '**Manu**'.

Press '**ok**': the parameter under modification is blinking.

Press keys '**▲**' and '**▼**' to modify settings between:

**Manu**: Automatic switch Standard Time/Summer Time disabled.

**Auto**: Automatic switch Standard Time/Summer Time enabled.

↓

```
Summer T. Auto
esc      +- ok
```

Press '**ok**' to confirm the modified value.

To exit the modify mode without saving the modification, press the '**esc**' key or wait for 20 sec. without pressing any key.

## INSTALLER PARAMETERS SETUP

From the home screen, where the current status of all active zones is displayed, the installer can access all the submenus that allow to change the setting of the available parameters to ensure the proper operation of the controller.

### ⚠ WARNING

The modification of the installer parameters must be made only by qualified technicians.

#### Entering password

SWITCH-ON

↓

```
S1 23.0 S2 ----
S3 ---- S4 ----
```

1 2 3 4 5 6 7 8

press '**ok**' and hold for 5s

↓

```
Enter pwd: 0000
esc <>  +- ok
```

By pressing '**◀**' or '**▶**' you loop through single digits. By pressing '**▲**' or '**▼**' you set the value of each digit.

Enter the password '**0000**'.

press '**ok**'

↓

```
Tube-Zone Config
esc <>      ok
```

By pressing '**◀**' or '**▶**' you loop through the submenus. Press '**ok**' to access the highlighted submenu.

↓

```
Off-Set      Setup
esc <>      ok
```

By pressing '**◀**' or '**▶**' you loop through the submenus. Press '**ok**' to access the highlighted submenu.

↓

```
Hysteresis Setup
esc <>      ok
```

By pressing '**◀**' or '**▶**' you loop through the submenus. Press '**ok**' to access the highlighted submenu.

↓

```
Default      Setup
esc <>      ok
```

By pressing '**◀**' or '**▶**' you loop through the submenus. Press '**ok**' to access the highlighted submenu.

↓

```
Zone Ctrl   Setup
esc <>      ok
```

By pressing '**◀**' or '**▶**' you loop through the submenus. Press '**ok**' to access the highlighted submenu.

#### Password modification

From this screen you can change the password to access the installer configuration menus.

You can access this screen from the home screen:

↓

```
S1 23.0 S2 ----
S3 ---- S4 ----
```

press '**ok**' and hold for 5s

↓

```
Enter pwd: 0000
esc <>  +- ok
```

press '**esc**'

↓

```
Old pwd:      0000
esc <>  +- ok
```

You'll be asked the old password. Enter it as described above.

press '**ok**'

```
New pwd: 0000
esc <> +- ok
```

You'll be asked the new password. Enter it as described above.

press 'ok'

```
Confirm: 0000
esc <> +- ok
```

You'll be asked to confirm the password. Enter it again as described above.

press 'ok'

If the new password has been accepted you'll directly access the menus for the installer parameter setting.

```
Tube-Zone Config
esc <> ok
```

By pressing '◀' or '▶' you loop through the submenus. Press 'ok' to access the highlighted submenu.

### Tube-Zone Config.: Configuration of Tubes-Zones

From this menu you can configure the number of controlled zones and consequently the number of tubes connected to each zone.

```
Tube-Zone Config
esc <> ok
```

press 'ok'

```
1 Zone 8 Tubes
esc ok
```

The current configuration of Zone-Tubes is shown.

press 'ok'

The first row is blinking to outpost that you are in the modify mode. The current Zone-Tubes configuration is displayed.

```
1 Zone 8 Tubes
esc +- ok
```

By pressing '▲' or '▼' you loop through the different configurations.

```
2 Zones 4 Tubes
esc +- ok
```

By pressing '▲' or '▼' you loop through the different configurations.

```
4 Zones 2 Tubes
esc +- ok
```

By pressing '▲' or '▼' you loop through the different configurations.

Press 'ok' to confirm your selection.

To exit the modify mode without saving the change, press the 'esc' key or wait for 20 sec. without pressing any key.

```
Tube-Zone Config
esc <> ok
```

### Off-Set Setup: Sensors Offset Setup

From this menu it is possible to set the Offset value for each sensor, i.e. the size of the correction (higher or lower) to be applied to the value read by the sensor that will be used both for the adjustment and the visualization of temperatures.

```
Off-Set Setup
esc <> ok
```

press 'ok'

```
Of1 0.0 Of2 0.0
Of3 0.0 Of4 0.0
```

The current offset values of each sensor (only if actually connected) are shown.

#### Note:

- Of1: Offset related to sensor S1.
- Of2: Offset related to sensor S2.
- Of3: Offset related to sensor S3.
- Of4: Offset related to sensor S4.

Press '◀' or '▶': to select the sensor whose offset you want to modify. The selected sensor is blinking.

Press 'ok' to enter the modify mode.

The sensor whose offset value you are changing starts blinking alternately from 'Off-' to 'set'.

To modify the value, use keys '▲' and '▼'.

Press 'ok' to confirm the entered value and return to set another sensor.

To exit the modify mode without saving the change, press the 'esc' key or wait for 20 sec. without pressing any key.

```
Off-Set Setup
esc <> ok
```

The regulation range for this menu is outlined in detail in the table below:

SENSOR OFFSET SETUP		
Data	Regulation range	Default
Of1	-5.0 .. +5.0 °C	0.0 °C
Of2	-5.0 .. +5.0 °C	0.0 °C
Of3	-5.0 .. +5.0 °C	0.0 °C
Of4	-5.0 .. +5.0 °C	0.0 °C

### Hysteresis Setup: Hysteresis setup (differential)

The hysteresis or differential is the value gap (in °C) between the switch-on and switch-off set-point temperatures of the controller. The adjustment hysteresis is useful to prevent too frequent on/off switching cycles that could cause damage to the heating system.

The regulation range for this menu is outlined in detail in the table below:

HYSTERESIS VALUE SETUP		
Data	Regulation Range	Default
hYST.	0.1 .. +5.0 °C	1.0 °C

```
Hysteresis Setup
esc <> ok
```

press 'ok'

```
Hyst. 0.1°C
esc ok
```

The current hysteresis value is shown.

Press 'ok' to access the modify mode.

The value is blinking. Use the keys '▲' and '▼' to modify the value.



↓  
Press 'ok' to confirm.  
To exit the modify mode without saving the change, press the 'esc' key or wait for 20 sec. without pressing any key.

↓  
**Hysteresis Setup**  
esc <> ok

↓  
**Zone Control**  
0 1 1 1 1 1 1 1

↓  
Press 'ok' to confirm the setting or else press 'esc' to exit.

### Default Setup: Factory default setup

From this screen you can reset the factory default values for all parameters.

**Default Setup**  
esc ok

By pressing 'esc' you exit the screen without restoring the data.

↓  
press 'ok'

**Set Default ?**  
esc ok

You'll be asked to confirm the selection.  
By pressing 'esc' you go back to the previous screen.

↓  
Press 'ok' to confirm the reset.

**Default Data Restored**

Confirmation message of data restoration.

↓  
Wait for 3 sec.

**OFF**  
Press esc x 3sec

The controller is switched off. To switch it on again press and hold 'esc' for 3 seconds.

**! WARNING**  
The Default Data setup will reset all the User settings. After restoring the default data, a new configuration of the controller is required.

### Zone Ctrl Setup: Single pipe activation/deactivation

Through this screen it is possible to activate or deactivate each of the single relays (RL1...RL8).

**Zone Ctrl setup**  
esc <> ok

Pressing 'esc' you exit the screen without restoring the data.

↓  
press 'ok'

**Zone Control**  
1 1 1 1 1 1 1 1

Select the pipe you want to activate or deactivate.  
Pressing 'esc' you return to the previous screen.

↓  
Press 'ok' to enter the setting mode.

**Zone Control**  
1 1 1 1 1 1 1 1

The "Zone Control" text and the previously set data blink.

↓  
Press '▲' or '▼' to modify the data.

0: Deactivated  
1: Active

## TROUBLESHOOTING

### • Symptom.

The password to access the installer parameters has been forgotten.

#### Remedy:

Reset the factory default settings following the procedure below:



#### WARNING

The Default Data setup will reset all the User settings. After restoring the default data, a new configuration of the controller is required.

SWITCH-ON



S1	23.0	S2	----
S3	----	S4	----

1 2 3 4 5 6 7 8



Within 30s after switch-on, press and hold keys '▲' + '▼'.



Enter pwd:	0000
esc <> -+ ok	

By pressing '◀' or '▶' you loop through the single figures. By pressing '▲' or '▼' you set the value for each digit.



enter the password '4224'.



press 'ok'



Default Data Restored
-----------------------

Confirmation message of the data restoration.



Wait for 3 sec.



OFF
Press esc x 3sec

The controller is switched off. To switch it on again press 'esc' for 3 seconds.



Data will be restored to the factory default values including the installer password whose value is "0000".

### • Symptom.

The display shows:

Sensor:	Open S-
Mem/Rtc:	ok

#### Probable cause:

The sensor 'S-' has not been connected or has not been properly connected or it is open (R=∞).

#### Remedy:

Check the sensor connections or replace it with a new one.

### • Symptom.

The display shows:

Sensor:	Short S-
Mem/Rtc:	ok

#### Probable cause:

The sensor 'S-' is in short circuit (R=0).

#### Remedy:

Replace the sensor.

### • Symptom.

The display shows:

Sensor:	ok
Mem/Rtc:	Fault

#### Probable cause:

The controller has detected a fault in the internal circuit.

#### Remedy:

Reset the controller.

If the problem persists, please contact the Seitron service centre.

## WARRANTY

In the view of a constant development of its products, the manufacturer reserves the right of changing technical data and features without prior notice.

The consumer is guaranteed against any lack of conformity according to the European Directive 1999/44/EC as well as to the manufacturer's document on the warranty policy. The full text of the warranty is available on request from the seller.