4 - Channel Thermostat - GSM

Device is designated for measurement and regulation of temp. at 4 positions GSM - alarm on the cell phone.

Usage: hatchery, incubator, terrarium, greenhouse and like that.

- ***sends SMS on the cell phone if:***
- ***temperature decreases 1 to 4 below the value alarm minimum.***
- ***temperature exceeds 1 to 4 above the value alarm maximum.***
- ***at the loss or failure of temperature´s sensor.***
- ***at the drop-out of el. power***
- ***at the restoration of el.power***
- ***at the failure (damage) of the output fuse.***
- ***at the activation of the input alarm uni.1 and uni.2***
- ***SMS sending of the current status (checking) after ringing***

- In case of troubles, please contact service man

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4 Thermostat GSM-Protect

Version:
4-Thermostat 4-Thermostat GSM

Device is designated for measurement and regulation of temperature at 4 different positions.
GSM - alarm on the cell phone.
Usage: hatchery, incubator, terrarium, greenhouse and like that.

Functions:

4 x thermostat - heating or cooling
1 x timer

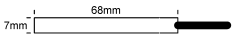
Settings:

Day´s temperature 5,0 to 99,9°C, step 0,1°C
Night´s temperature 5,0 to 99,9°C, step 0,1°C
Hysteresis 0,1 to 10,0°C, step 0,1°C
Acoustic alarm of minimum and maximum temperature
Transit time day/night
Actual time
Timer switching on/off time

GSM - alarm
* - Only model with GSM!

Sends SMS at decreasing/exceeding the values alarm min.,max.
At the drop-out of el. power, disonnecting of the output fuse.
At the loss or failure of sensors.
Device sends SMS message of the current status for ringing.
Possibility to choose 3 different tel. numbers
on which SMS information can be sent.

Contains:



4 x sensor DS 18b20 on the cables of length 3m ended with connector RJ45.
5 x output 230VAC, connection by means of terminal box up to 1mm²

Outputs:

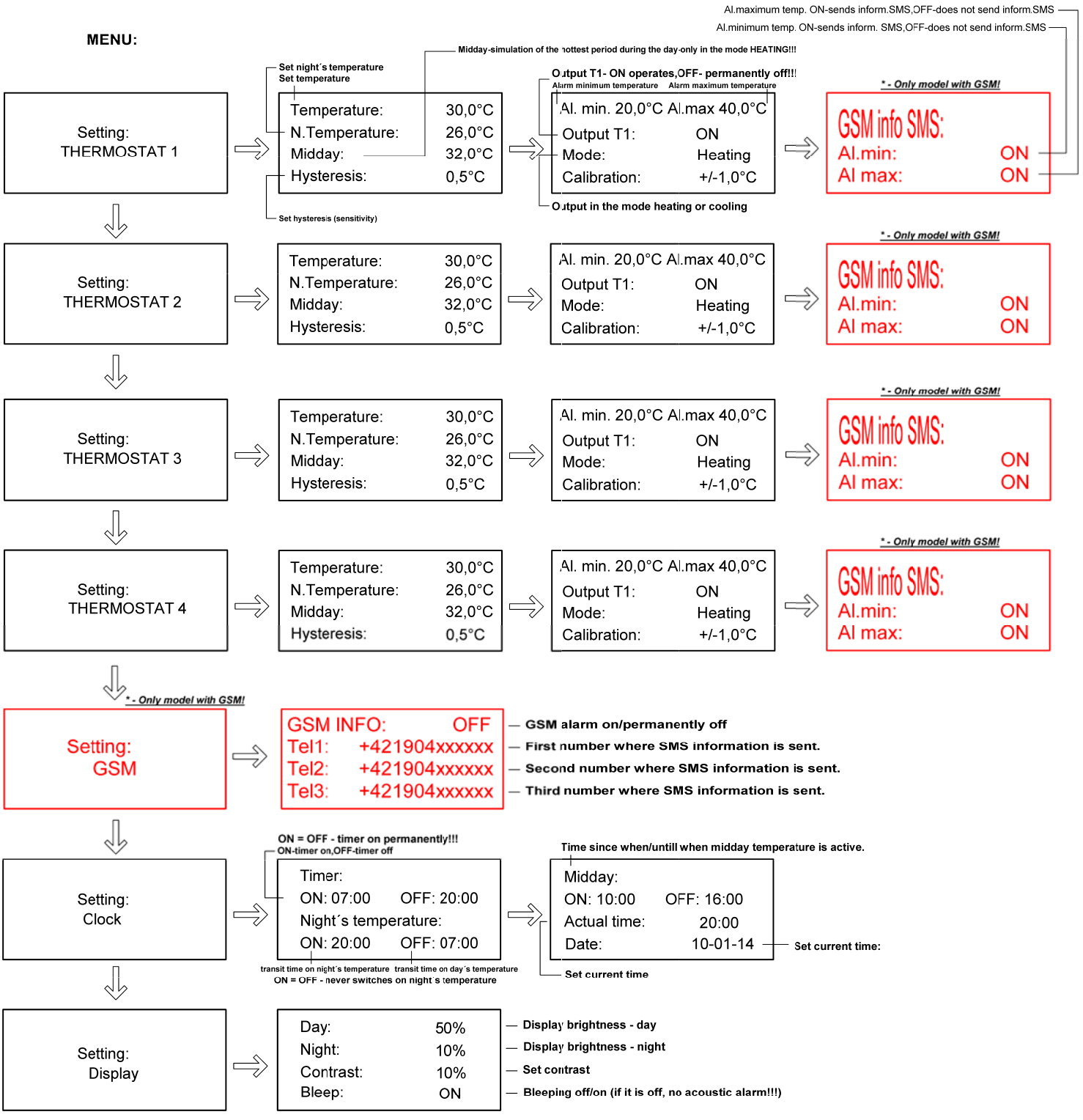
Voltage 230VAC !!!
Fuse 6,3A, it is common for all outputs
Maximum current 6A
Outputs are designated for connection of 2.class devices

Dimension: *45 x 100 x 130mm*

Device can be neither covered nor built in!
Device of 2.class! (even connected devices)
- Only authorized personnel is allowed to connect the device!!!

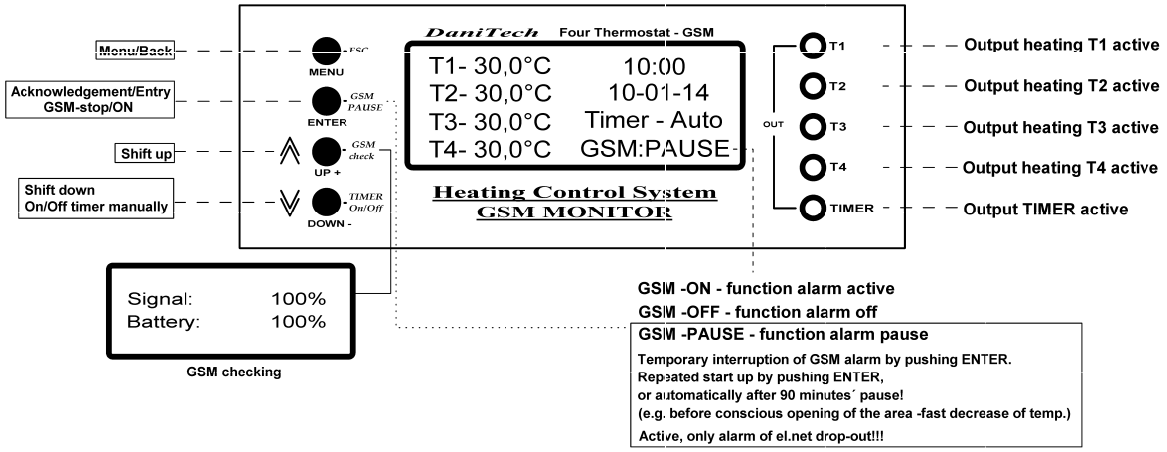
Possibilities of settings in MENU:

MENU:	**Menu of settings (return back)**
ENTER:	**Acknowledgement (entry)**
DOWN:	**Shift down**
UP:	**Shiift up**

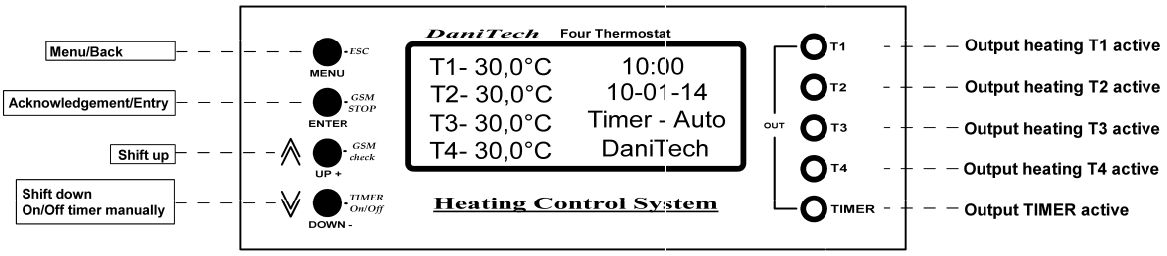


Connection and description:

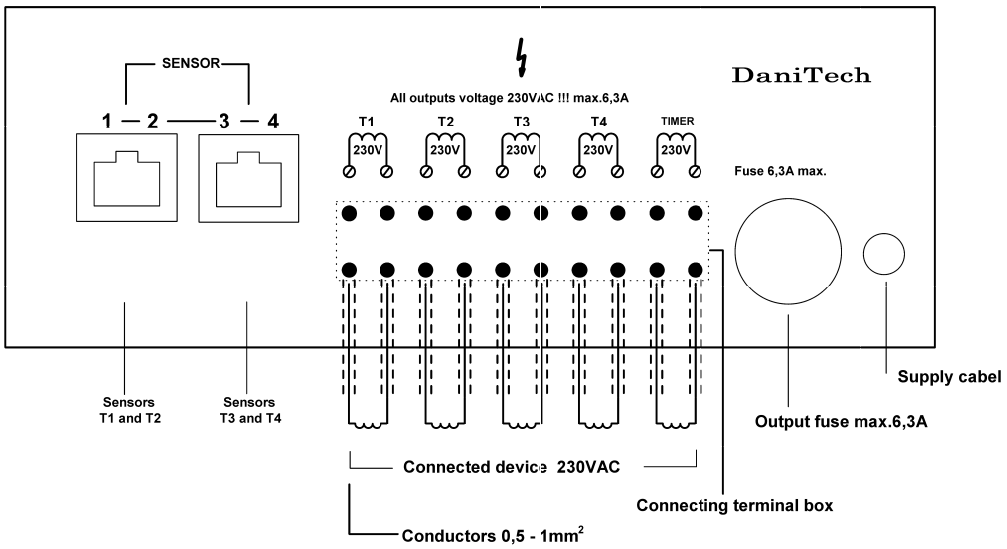
Model: 4- Thermostat GSM



Model: 4-Thermostat



Rear panel



Output voltage 230VAC !!!!! Attention!

- Only authorized personnel is allowed to connect device!!!

Warning:

- **Function GSM is off by default!**
- **Switch on GSM alarm, only after setting of alarm values (min,max,etc.)**
- **You avoid undesired sending of useless SMS.**
- **Before sudden (desired) change of values (e.g. opening of controlled area), it is necessary to stop the function GSM alarm manually (button GSM-PAUSE)**
- **Before shut down (non using) of the device, firstly it is necessary to switch off the function GSM alarm in the menu!!!**
- **Under the long term shut down, it is necessary to activate device in order to charge accumulator, once a month, for approximately 24 hours.**
- **Use only in the area with sufficient coverage of GSM signal of given operator!!!**
- **<u>Insert SIM card with PIN CODE "0000" !!!!!</u> (firstly, it must be changed in the cell phone.)**
- **Service CLIP must be activated on the SIM card, otherwise the device shall not react on ringing.**
- **As far as the device indicates battery charging, GSM function is not active!!! (Charg.Batt)**

Recommendation:

- **In order to guarantee reliability of the operation, change accumulator every 24 months.**

Example of printout on the cell phone:

Error message always in the beginning with capital letters.

Cell phone:

4T-GSM reports:

RESTORATION OF EL.POWER!
Current values:
Tep1.:30,0C
Tep2.:30,0C
Tep3.:30,0C
Tep4.:30,0C
Time: 10:00:00
El.power:OK
Fuse:OK
Battery:80%

Cell phone:

4T-GSM reports:

ACTIVE ALARM UNI1!
ACTIVE ALARM UNI2!
Time: 10:00:00

Printout of alarms UNI1 and UNI2 on the cell phone.

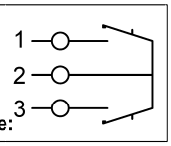
Alarm UNI 1 and 2.

Universal alarm defined by the user.

Activated input UNI1-
(by connection of clamp 1 and 2)

Activated input UNI2-
(by connection of clamp 2 and 3)

Connection of clamps 1,2 and 3 only isolated contact (relay)



Example:

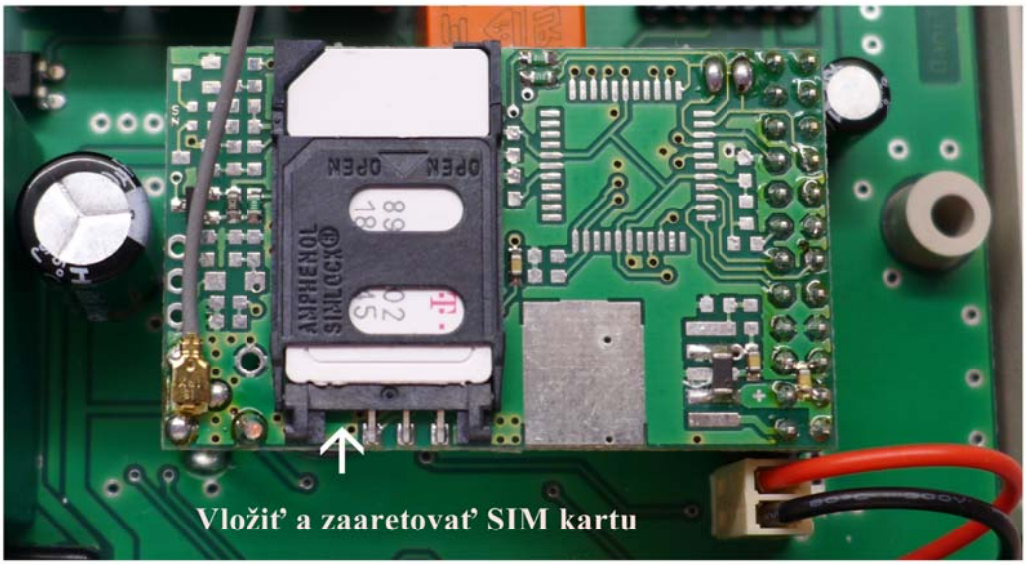
Insertion/Change the SIM card:

- Only SIM with pin code "0000" !!!

- Change SIM, only when the device is disconnected from el.power !!!

1 - Open the device.

2 - Insert SIM card.



Insert and fix SIM card

3 - Close the device the same way, just the opposite order.