CLIMATEC

# HP15

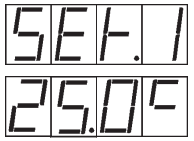
**SL 3.0**

*Double single-level thermostat*

**Handbook**

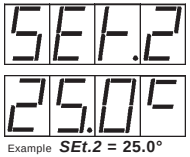

## *MAIN SETTINGS* (Run Mode).

**SET 1 TEMPERATURE SETTING**.
Press **SET 1** (key lamp flashes)**:**
This message will be displayed instead of the °*Set 1 temperature value*.
Press + or - to modify. Press **SET 1** to confirm.



Example ***SEt.1*** **= 25.0°**

**SET 2 TEMPERATURE SETTING**.
Press **SET 2** (key lamp flashes)**:**
This message will be displayed instead of the °*Set 1 temperature value*.
Press + or - to modify. Press **SET 2** to confirm.

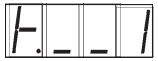


Example ***SEt.2*** **= 25.0°**

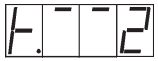
## *MINIMUM AND MAXIMUM AMBIENT TEMPERATURES RECORDING.*

**TEMPERATURE 1 RECORDING VIEWING**. Press **SET 1** key, after:

Press & hold **+**  : will be displayed followed by °*Maximum Temperature 1 Recording.*

Press & hold **-**  : will be displayed followed by °*Minimum Temperature 1 Recording.*

**TEMPERATURE 2 RECORDING VIEWING**. Press **SET 2** key, after:

Press & hold **+**  : will be displayed followed by °*Maximum Temperature 2 Recording.*

Press & hold **-**  : will be displayed followed by °*Minimum Temperature 2 Recording.*

Values recorded are permanently stored in the memory. To clear memory push **+** key for more than 3 seconds: ***CLEA*** message will be displayed before clearing operation.

## *COSt PROGRAMMING* (System constants)

These settings refer to the mode operation of the system and must be made on initial start-up.
Press **- / +** together for at least one second: the message ***C.O.S.t.*** will be displayed.
Press **SET 2** repeatedly until desired variable's message is displayed (see table below) : variable value and related message will be displayed.
Press **+** or **-** to set a new value and then **SET 2** to confirm.
The next system constant will then appear.
You can press **SET 2** for a least two seconds to escape and return to the *Run Mode*.

| Mess. | Value | Meaning | Note |
|---|---|---|---|
| ***diF.1*** | **0.2°** | ° SET 1 differential | ***1)** |
| ***diF.2*** | **0.2°** | ° SET 2 differential | ***1)** |
| ***tEnP*** | **=1** | Temperature representation (=1 °C, =2 °F) | ***2)** |
| ***Ad.t1*** | **0.0°** | ° Zone 1 input temperature sensor correction (+ or -) | ***3)** |
| ***Ad.t2*** | **0.0°** | ° Zone 2 input temperature sensor correction (+ or -) | ***3)** |

***1)** For more details see *Operating Diagrams.*

***2)** ***tEnP =1*** : **°C** Temperature range.
***tEnP =2*** : **°F** Temperature range.

***3)** You can correct the readings on the various sensors (**+** or **-**).

## *PRESET PROGRAMS* (Bootstrap)

This processor is ready programmed with the following (variable) settings.
To return to these settings at any time:
Power off the processor, press **SET 2** key and keep it pressed giving power on: release **SET 2** key when the ***boot*** message appears.

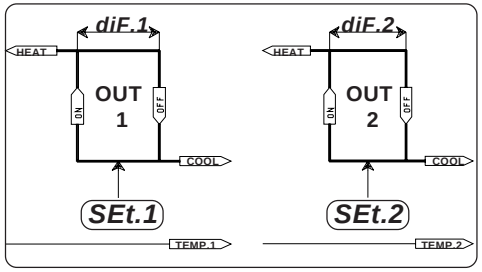
***SEt.1*** **= 25.0°** ***SEt.2*** **= 25.0°**
The **COSt** values are shown in **COSt** paragraphs.

## STATE INDICATION LAMPS

The lights situated at the bottom of the display show the state of the various relays as set out below.

| Lamp. | State | N° Relay | Contacts |
|---|---|---|---|
| **HEAT (1)** | HEAT 1 Output On | 1 | 3-4 |
| **COOL (1)** | COOL 1 Output On | 1 | 4-5 |
| **HEAT (2)** | HEAT 2 Output On | 2 | 6-7 |
| **COOL (2)** | COOL 2 Output On | 2 | 7-8 |

## OPERATING DIAGRAMS




## INSTALLATION

### How to connect the sensors

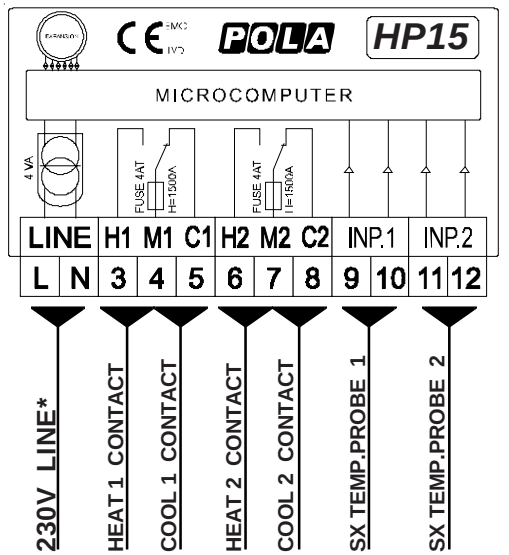
Connect the sensors provided as shown in the diagram.
For remote connections use a standard 0.5-square millimetre two-pole wire for each sensor, taking great care over the connections, by insulating and sealing the joins carefully.

### How to connect the line

Connect 230V line on terminals **L-N**.
Protect supply with adequate fuse.

### How to connect the contacts

Connect terminals on the terminal block
(contacts up to 4AMP.AC1) to the loads as shown in the diagram.




***** Other power voltage if you required

## Troubleshooting

***-O.C.-*** is displayed when the temperature sensor wiring is open circuited.
***-S.C.-*** is displayed when the temperature sensor wiring is short circuited

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19.07.06