

HP23

SL 4.0

Handbook

Floating proportional

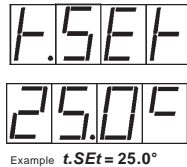


MAIN SETTING (Run Mode)

TEMPERATURE SETTING



Press **SET** (key lamp flashes): this message will be displayed instead of the ° Set temperature value.
Press + or - to modify, press **SET** to confirm.



VIEWING TEMPERATURE RECORDING



Press & hold + **F. _ _ _** : will be displayed followed by °Maximum Temperature Recording.
Press & hold - **F. _ _ _** : will be displayed followed by °Minimum Temperature 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.

COS t 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** 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** to confirm. The next system constant will then appear. You can press **SET** for at least two seconds to escape and return to the Run Mode.

Mess.	Value	Meaning	Note
<i>n.b.</i>	0.2°	° Neutral range	*1)
<i>b.CLO</i>	5.0°	° HEAT modulation range	*1)
<i>b.OPE</i>	5.0°	° COOL modulation range	*1)
<i>t.on</i>	1.0"	On time in seconds	*1)
<i>t.oF</i>	60.0"	Off time in seconds	*1)
<i>tEnP</i>	=1	Temperature representation (=1 °C, =2 °F)	*2)
<i>Ad.tE</i>	0.0°	°C Input temperature sensor correction (+ or -)	*3)

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

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

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

PRESET PROGRAMS (Bootstrap)



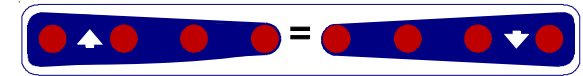
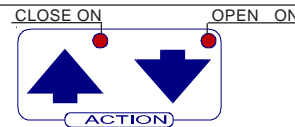
This processor is pre-programmed with the following (variable) settings. To return to these settings at any time: Power off the processor, press **SET** key and keep it pressed giving power on: release **SET** key when the **boot** message appears. **t.Set = 25.0°**
The **COS t** values are shown in *COS t Programming*

"HAND" MODE



In some start-up conditions it may be useful to work in "hand" mode: Power off the processor, press + key and keep it pressed giving power on: **HAnd** message will be displayed (release now + key). Push + until the required number to be handed is displayed (see table relays) and push **SET** for activating relay.
Push + again to increase relay number, previous relay is deactivated. You can press **SET** key for a least two seconds to escape and return to the Run Mode.

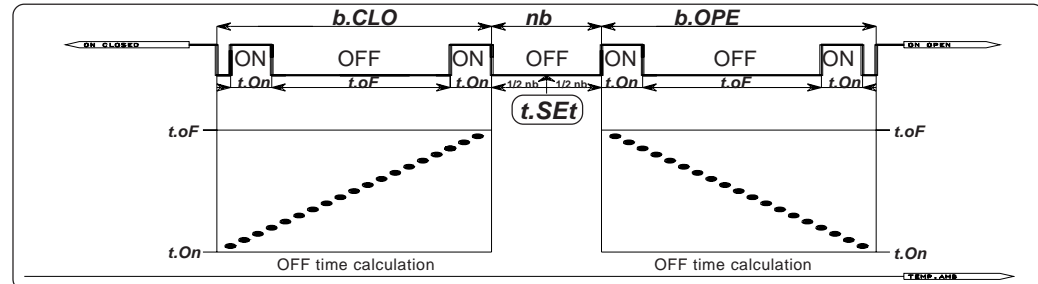
STATE INDICATION LAMPS



Swinging Ambient / Set temperature (t.Set) indicator

Lamp.	State	N° Relay	Contacts
CLOSE	Close (Heat) On	1	3-4
OPEN	Open (Cool) On	2	4-5

OPERATIVE DIAGRAM



INSTALLATION

How to connect the line

Connect line on terminals **L-N**; protect supply with adequate fuse.

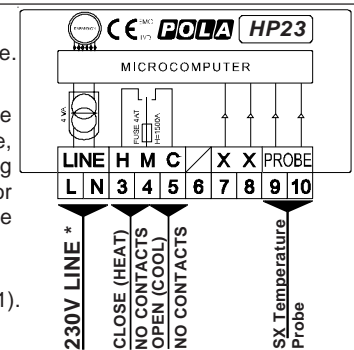
How to connect the sensors

Connect the sensor provided as shown in the diagram. For remote connections use a standard 0.5-square millimeter two-pole wire, taking great care over the connections, by insulating and sealing the joins carefully. **-O.C.-** is displayed when the temperature sensor wiring is open circuit, **-S.C.-** is displayed when the temperature sensor wiring is short circuit.

How to connect the contacts

Connect terminals on the terminal block (contacts up to 4AMP.AC1).

* Other power voltage if you required



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