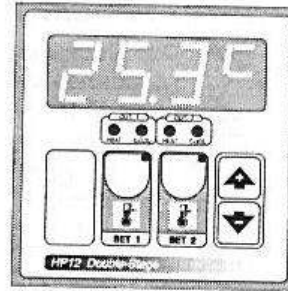


HP12

SL 3.0

Double-level thermostat

Handbook



MAIN SETTINGS (Run Mode)



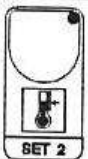
SET 1 TEMPERATURE SETTING.

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.

SET.1

20.0°C

Example SET.1 = 20.0°



SET 2 TEMPERATURE SETTING.

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

SET.2

25.0°C

Example SET.2 = 25.0°

VIEWING TEMPERATURE RECORDING



Press + : will be displayed followed by °Maximum Temperature Recording.
Press - : will be displayed followed by °Minimum Temperature Recording.

Values recorder are memory permanent stored: for memory clear keep pushed + keys for more than 3 seconds: **CLEA** message will be composed on display 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 than repeatedly **SET 2** until interested 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 second 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.tE	0.0°	°C Input temperature sensor correction (+ o -)	*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



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 on the screen appear **boot** message.

Set.1 = 20.0° Set.2 = 25.0° The **COST** values are shown in **COST** paragraphs.

"HAND MODE"



In some start-up conditions 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 is displayed number required to be handed (see table relays "**N° Relay**") and push **SET 2** for activating relay.

Pushing again **+** for increase relay number previous relay is deactivated.

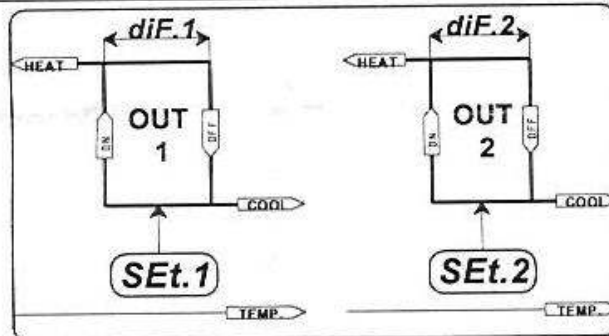
You can press **SET 2** for a least two seconds to escape and return to the *Run Mode*.

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 DIAGRAM



INSTALLATION

How to connect the line

Connect 230V line on terminals L-N.

Protect supply with adequate fuse.

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. **-O.C.-** is displayed when the temperature sensor wiring is open, **-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) to the loads as shown in the diagram.

* Other power voltage if you required

