

## MANUAL 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:  
**1** = HEAT relay, **2** = Alarm relay, **3** = VENTILATION 0-10V output, and push  
**ALARM** for activating relay (or to pass from 0V to 10V on ventilation output).  
 Pushing again + for increase relay number previous relay is deactivated.  
 You can press **ALARM** for a least two seconds to escape and return to the *Run Mode*.

## PRESET PROGRAMS (Bootstrap)



This processor is already programmed with the following (variable) settings.  
 To return to these settings at any time you may:  
 Power off the processor, press **MAX VENT** key and keep it pressed giving power on:  
**boot** message will be displayed (release now **MAX VENT** key).

**HEAt = 20.0° vEnt = 25.0° SP.\_ \_ = 0 SP.- - = 100 AL.\_ \_ = 10.0° AL.- - = 40.0°**  
**COST** value are shown in **COST** paragraph.

## INSTALLATION

### How to connect the line

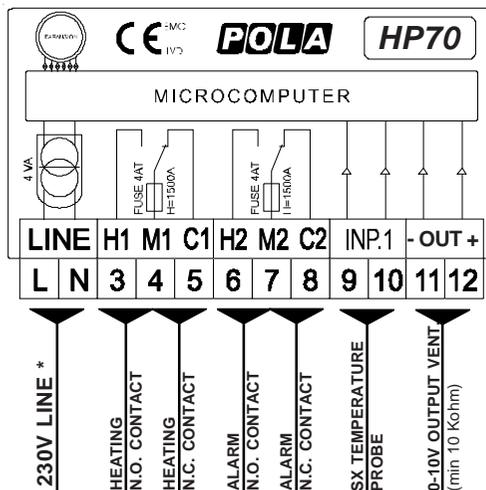
Connect line on terminals **L-N**; protect supply with adequate fuse.

### 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, **-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.



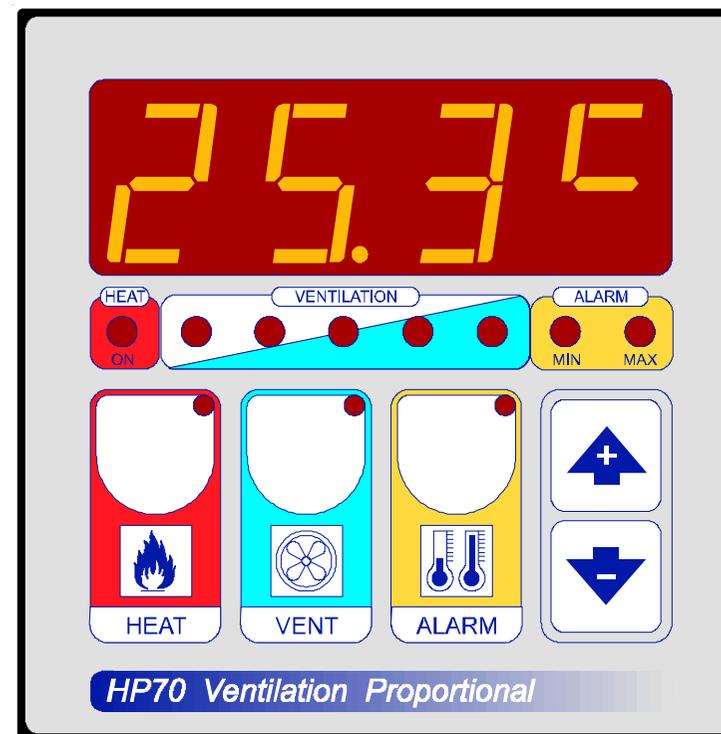
\* Other power voltage if you required

# HP70

SL 3.0

Ventilation proportional 0-10V

Handbook



## MAIN SETTINGS (Run Mode)

### HEAT TEMPERATURE SETTING.

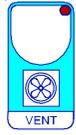


Press **HEAT**:

This message will be displayed instead of the °Set Heat temperature value .

Press + or - to modify, press **HEAT** to exit.

HEAT



### VENTILATION TEMPERATURE SETTING.

Press °C **VENT** :

This message will be displayed instead of the °Set Ventilation temperature value (start first speed).

Press + or - to modify, press **VENT** to confirm.

At this point: this message will be displayed instead of the Minimum Ventilation Speed %.

Press + or - to modify, press **VENT** to confirm.

At this point: this message will be displayed instead of the Maximum Ventilation Speed %.

Press + or - to modify, press **VENT** to confirm.

VENT

SP. \_ \_

SP. \_ \_

### ALARM PARAMETER SETTING.



Press **ALARM**:

This message will be displayed instead of the °Set Minimum Alarm temperature value .

Press + or - to modify, press **ALARM** to confirm.

At this point: this message will be displayed instead of the °Set Maximum Alarm temperature value .

Press + or - to modify, press **ALARM** to exit.

AL. \_ \_

AL. \_ \_

## COS t PROGRAMMING (System constants)



These settings refer to the operation mode of the system and must be made on initial startup. Press - / + at the same time for at least one second: the message **C.O.S.t** will be displayed.

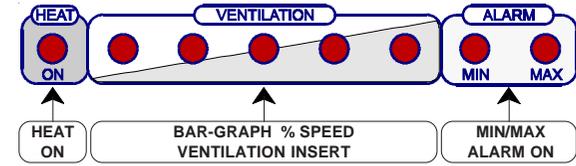
Press then repeatedly **ALARM** until the message regarding the chosen variable is displayed (see table below) : value of variable and message will be displayed. Press + or - to set a new value and then press **ALARM** to confirm.

The next system constant will then appear.

You can press **ALARM** for at least 2 seconds to exit and return to the Run Mode.

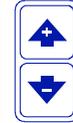
Mess.	Value	Meaning	Note
d.HEA	0.2 °	°C HEAT differential	
ProP	3.0 °	°C VENTILATION proportional band	
tEnP	= 1	temperature representation (=1 °C, =2 °F)	
Ad.tE	0.0 °	° Input sensor temperature correction (+ or -)	

## STATE INDICATIONS LAMP



In normal condition (not in programming) press **VENT** key for at least 1 second to display % speed insert.

## VIEWING AMBIENT TEMPERATURE RECORDING



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

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

Values are permanently stored in the memory: for deleting all values in the memory keep pushed + key for more than 3 seconds: **CLEA** message will appear on display before clearing operation.

## OPERATIVE DIAGRAMS

