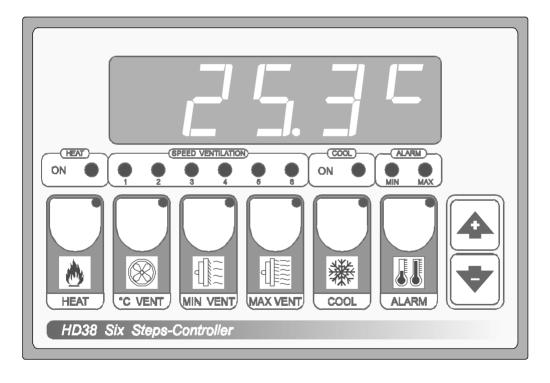
HD38

CE

6 steps ventilation +thermoregulation

Handbook





MAIN SETTINGS (Run Mode)

HEAT TEMPERATURE SETTING HEAT TEMPERATURE SETTING. Press **HEAT** (key lamp flashes): This messagge will be displayed instead of the °Set Heat temperature value. HEAT Press + or - to modify, press HEAT to exit. VENTILATION TEMPERATURE SETTING. Press °C VENT (key lamp flashes): This messagge will be displayed instead of the °Set Ventilation temperature value (start first speed). Press + or - to modify, press VENT to confirm. C VENT If the minimum speed is set to **0**, this message appears instead of the Set Shutter Running Time (in seconds or in minutes*). Press + or - to modify, press VENT to confirm. At this point: this messagge will be displayed instead of the Shutter Dwell Time (in seconds or in minutes*). Press + or - to modify, press VENT to confirm. At this point: this messagge will be displayed instead of the Shut Speed Number. Press + or - to modify, press VENT to exit. MINIMUM SPEED VENTILATION SETTINGS. Press MIN VENT : This messagge will be displayed instead of the °Minimum Ventilation Speed. HIN VENT Press + or - to modify, press MIN VENT to exit. MAXIMUM SPEED VENTILATION SETTINGS. Press MAX VENT : This messagge will be displayed instead of the °Maximum Ventilation Speed. Press + or - to modify, press MAX VENT to exit. MAX VENT COOLING TEMPERATURE SETTINGS. a Press COOL : This messagge will be displayed instead of the

°Set Cool temperature value.

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

* See Cost. tinE function.

獭

COOL

ALARM PARAMETER SETTING.

Press ALARM (key lamp flashes):



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

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

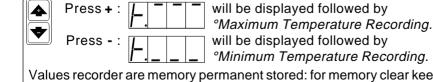
At this point: this messagge will be displayed instead of the °Set Maximum Alarm temperature value.

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





VIEWING TEMPERATURE RECORDING



Values recorder are memory permanent stored: for memory clear keep pushed + keys for more than 3 seconds:

CLEA messagge will be composed on display before clearing operation.

COSt PROGRAMMING (System constants)



These settings refer to the mode of operation of the system and must be made on initial start-up. Press -/+/HEAT together at least one second:

the message *C.O.S.t.* will be displayed.

The COST messagge are displayed in sequence if you press + to go forward or - to go back.



When you reach the messagge required (see table below) press + or - to set a new value and then **ALARM** to confirm.

The next system constant will then appear.

You can press **HEAT** to escape and return to the *Run Mode*.

Mess.	Valore	Significato			
r.1	0.0°	°C VENT.1 start setting referring to vEnt set.	*1)		
r.2	1.0°	°C VENT.2 start setting referring to VENT 1 start.			
r.3	1.0°	°C VENT.3 start setting referring to VENT 2 start.			
r.4	1.0°	°C VENT.4 start setting referring to VENT 3 start.			
r.5	1.0°	°C VENT.5 start setting referring to VENT 4 start. **			
r.6	1.0°	°C VENT.6 start setting referring to VENT 5 start. *			
d.vEn	0.2°	°C Ventilation differential			
S.vEn	0"	Ventilation step on dalay seconds			
d.HEA	0.2°	°C Heat differential			
d.COL	0.2°	°C Cool differential *1			
tinE	= 1	<i>t.on</i> - <i>t.oF</i> setting mode (=1 seconds, =2 minutes)			
StEP	= 1	Ventilation setting mode.			
tYPE	= 1	Start Ventilation actioning mode			
tEnP	= 1	Temperature representation (=1 °C, =2 °F)			
Ad.tE	0.0°	°C input sensor temperature correction (+ or -)			

*1) For more details see Operative Diagrams

- *2) *tinE=* 1 : *t.on t.oF* setting mode (see VENT key) in seconds.
 - *tinE= 2* : *t.on t.oF* setting mode (see VENT key) in minutes.
- *3) *StEP= 1* : Ventilation in speed regulation mode.
 - StEP= 2 : Ventilation in on-off mode (progression regulator)*.

* To obtain this type of functioning, the **41-42** terminals has to be connected.

- *4) Different mode of ventilator initial start-up optionally settable useful for speed regulation (step from 0 to 1 speed).
 - *tYPE= 1* : 0 to 1 step become in normal mode.

tYPE= 2 : 0 to 1 step become with a momentary **10** seconds at speed **2**.

- **tYPE= 3**: 0 to 1 step become with a momentary **5** seconds at speed **3**.
- *tYPE= 4* : 0 to 1 step become with a momentary **5** seconds at speed **4**.
- *5) tEnP =1 ; °C Temperature range. tEnP =2; °F Temperature range.
- *6) You can correct the readings on the sensor (+ or -).

PRESET PROGRAMS (Bootstrap)



At delivery this processor is ready programmed with the following (variable) settings.

To return to these settings at any time.

Press + / - / ALARM keys together for at least one second:

boot messagge will be displayed.

HEAt = 20.0° vEnt = 25.0° t.on= $10^{"}$ t.OF= $60^{"}$ PArt= 0SP._ = 0SP.- = 6COOL= 30.0° AL. = 10.0° AL. - = 40.0° COST value are shown in COST paragraph.

"HAND MODE"

In some start-up conditions may be useful to work in "hand" mode.

Press + / - / MIN VENT keys together for least one second:

HAnd messagge will be displayed (release now + key).

Push + until is displayed number required to be handed (see table relays "N° **Relay**") and push **ALARM** for activing relay.

Pushing again + for increase relay number previous relay is disactivated.

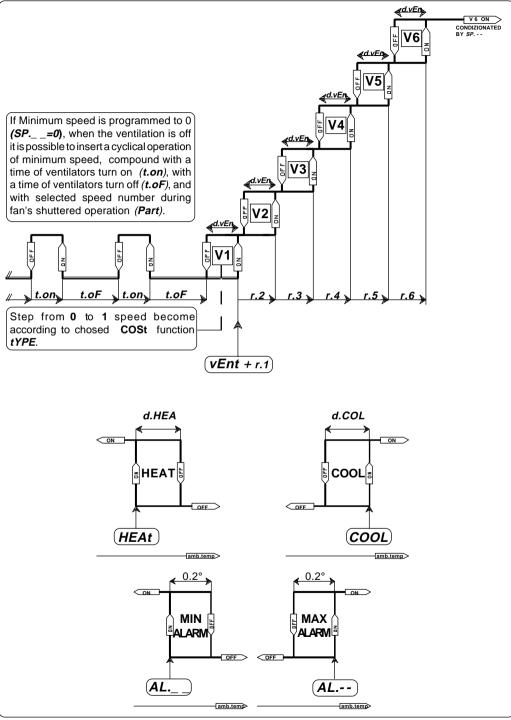
You can press MIN VENT to escape and return to the Run Mode.

STATUS 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	Output contacts
HEAT	HEAT On	HPAL 1/HDY6 1	HPAL 3-4/HDY6 3-4
VENT 1	SPEED 1	HD38-1	HD38 3-5
VENT 2	SPEED 2	HD38-2	HD38 3-6
VENT 3	SPEED 3	HD38-3	HD38 3-7
VENT 4	SPEED 4	HD38-4	HD38 3-8
VENT 5	SPEED 5	HD38-5	HD38 3-9
VENT 6	SPEED 6	HD38-6	HD38 3-10
COOL	COOL On	HDY6 2	HDY6 5-6
AL. MIN	MINIMUM ALARM On	HPAL 2/HDY6 3	HPAL 7-8/HDY6 7-8
AL. MAX	MAXIMUM ALARM On	HPAL 2/ HDY6 3	HPAL 7-8/HDY6 7-8

Relative light (**1-2-3-4-5-6**) flash during VENT time cycling, or during *r.vEn* (see COSt) time delay.



INSTALLATION

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 open, **-S.C.**- is displayed when the temperature sensor wiring is open, **-S.C.**- is displayed when the temperature sensor wiring is open, **-S.C.**- is displayed when the temperature sensor wiring is open.

How to connect the line

Connect line on terminals L-N.

How to connect the contacts

Output **3-4.....13-14** contacts are N.O. (Normally Opened free of voltage) on wich is apliable a 4AMP AC1 maximum load.

