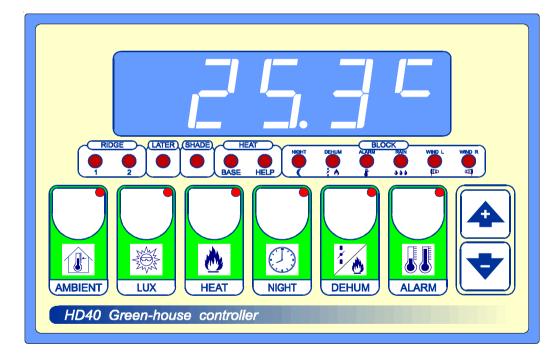


HD40

Greenhouse controller

Handbook









- D) During the dehumidification phase (obtained by *H.dEu* setting and can be executed under **DEHUM** key), the **DEHUM** lamp flashes in order to show the dehumidification cycle that is working (the humidity obtained inside excees the desired one) and this type of working operates:
 - **By day**: ridge and lateral windows close completely to open then the ridges of a percentage (**PC.ri**) for a time period (**On.Co**) after that they open the ridges and after a time period (**Of.dE**) they switch on the heating of help for a certain time (**On.dE**), after that they switch off it and wait for a certain time (**OF.dE**).
 - **By night**: ridge and lateral windows close completely, the shading opens of a percentage (**PC.Sh**) for a time period (**On.Sh**) after that the shading closes and repeats the preceding opening cycle, after that the same dehumidification cycle is included as explained by day condition.
 - The dehumidification cycle remains till when the dehumidification condition **DEHUM** is inserted. If one of the ridge or lateral windows is going to open, the dehumidification condition is not inserted.
- **E)** The base heating working (**BASE**) can be done with three different ways (see *INSt*, *tYPE* function; anyway it works in a proportional way till when the limit probe operates):
 - tYPE=0: the base heating works with the soil probe and the limit probe is present. The limit function operates in a proportional way on the cold of the base heating (see COSt bC.Li, On.Li, OF.Li function).
 - **tYPE=1**: the base heating works with the environmental probe and the limit probe is not present.
 - tYPE=2: the base heating works with the environmental probe and the limit probe is present. The limit function operates in this way: when the limit temperature is exceed (t.Lin) the programmed set on the base heating (programmed under HEATkey, t.BAS function) diminishes del valore dE.Li (see COSt). The heating is reduced during the night phase (NIGHT).
- (*1) During these conditions if the relative ambient temperature goes under the programmed value (*t.SEt* † *r.CO.1* for left windows of the ridge, *t.SEt* † *r.CO.2* for right windows of the ridge, *t.SEt* † *r.LAt* for Lateral windows) the relative windows can be completely closed till the temperature isn't rising again (during this phase the lamp of closing windows flashes).
- N.B. If it happens that at the same time that an enometer and the pluviometer intervene, priority will be given to wind condition (an emometric intervention)

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 short circuit.

How to connect the line

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

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.

PARTICULAR CONDITIONS OF WORKING.

With conditions of normal working the window of ridge and lateral, the base heating and of help are actioned in floating - proportional (see Operative Diagrams) way according to the temperature obtained from its temperature probe, the shading can be regulated according to the survey of the luminosity probe: with the conditions under explained the normal working is left.

- A) When the pluviometer intervenes (inserted RAIN condition) this type of working operates:
- The ridge windows (RIDGE) close completely (see InSt, t.ri.1 and t.ri.2 function) to open then of a percentage (see COSt P.ri.r function) and can stay in this position (*1) till the pluviometer intervention remains.
- The lateral windows (LATER) close completely (see InSt, t.LAtfunction) to open then of a percentage (see COSt, P.r.LA function) and can stay in this position till the pluviometer intervention remains.

The working of lateral window can be programmed in a way (P.r.LA = 100) that cannot undergo any changes when the anemometer intervenes, but they can still go on working according to the servey of the environment temperature.

- B) When the anemometer intervenes (WIND L or WIND R) this type of working operates:
- The ridge left windows (RIDGE 1) closes completely till the wind left signal remains.
- The ridge right windows (RIDGE 2) closes completely till the wind right signal remains.
- The lateral windows (LATER) close completely to open then of a percentage (see InSt t.LAtfunction) and can stay in this position (*1) till the anemometer intervention remains. The working of lateral window can be programmed in a way (P.u.LA = 100) that cannot undergo any changes when the anemometer intervenes, but they can still go on working according to the servey of the environment temperature.
- C) During the night phase (obtained by *L.niG* setting and it can be executed under **NIGHT** key and in any case by another timr limit of inserction ,see InSt S.Nig function) this type of working operates:
- The heating night reduction is connected (see COSt, rEd.H function).
- The shading (SHADE) closes completely (night thermal shade).
- When the night condition ends (determined from the statement **L.dAy** praticable under the NIGHT key and in any case from a limit vime of inserction, see InSt , E.Nig function) the heating night reduction is not connected, while the shading SHADE waits for a time (see Inst ,d.nig function) to open then at impulses (see COSt , On.Lu and OF.Lu function). During the day the closing can work without impulses and can have a limit in percentage (see COSt, PC.Lu function) if it is required by the luminosity probe.

The opening and closing working according to the daily luminosity change has a delay of a certain time (see COSt, OP.Lu and CL.Lu function).

MAIN SETTINGS (Run Mode)

TEMPERATURE SETTING.



Press **AMBIENT** for least 1/2 second:(key lamp flashes): This message will be displayed instead of the °Set ambient temperature value.



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

LUMINOSITY SETTINGS:



Press **LUX** for least 1/2 second:(key lamp flashes): This message will be displayed instead of the

KLux Set Luminositv.

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



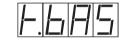
HEATTEMPERATURE SETTING.



Press **HEAT** for least 1/2 second:(key lamp flashes):

This message will be displayed instead of the

Set Base-heat temperature value.



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



At this point this messagge will be displayed instead of the Set Help-heat temperature value.

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



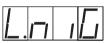
NIGHT REDUCTION SETTINGS.



Press **NIGHT** for least 1/2 second:(key lamp flashes):

This message will be displayed instead of the Klux Set daily condition value.

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



At this point this message will be displayed instead of the Klux Set night condition value.

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



DEHUMIDIFICATION SETTINGS.



Press **DEHUM** for least 1/2 second:(key lamp flashes):

This message will be displayed instead of the %Rh set ambient dehumidification value.

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



ALARM SETTINGS.



Press **ALARM** for least 1/2 second:(key lamp flashes):

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.



VIEWING TEMPERATURE S (AND HUMIDITY)

Pressing the relative key for at lest 1/2 second (otherwise the function starts to operate in programming) on display will appear (when the key isn't pressed) the obtained temperature of the ambient probe (led of relative key on).

In the case of circuit opening of relative temperature probe on display will appear -O.C.message, for short cirucit -S.C.- message.

The RIDGE windows, the LATERAL windows and the temperature ALARM work with the data of ambient probe, the SHADE works with the data of luminosity probe, the HEAT-HELP work with the data of Ambient probe (if the Limit probe is connected, to view it press more than 2 seconds the **HEAT** key).

If the Humidity probe is connected, pressing **DEHUM** key for less than 1/2 second (otherwise the function starts to operate in programming) on display will appear (when the key isn't pressed) the obtained humidity of the probe (led **HUM** key on).

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.

CLOCK SETTING.



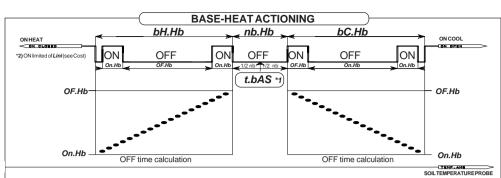




Press together + - NIGHT for AT least 1 second; on display will appear the current Hour and minutes (release now keys).

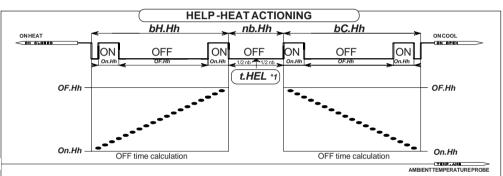
Press + or - to program,

press NIGHT to exit.



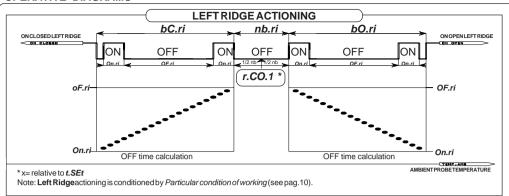
Note: during the NIGHT phase the Heating set changes (see COSt , rEd.h function).

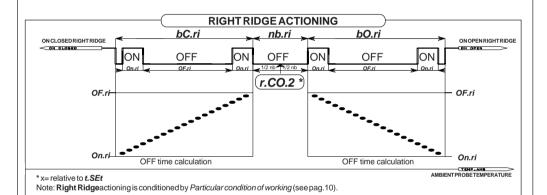
The Max. temperature of the water is limited by t.Lin setting (see Cost), that is obtained with Limit probe.

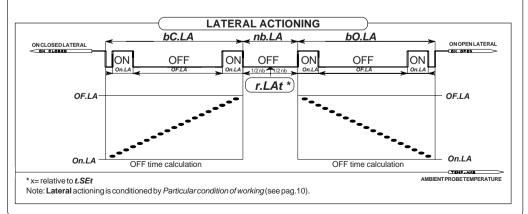


Note: with On.Hh=0.0" and OF.Hh =0.0" the actioning of Heating can be obtained in on/off mode (for convectors, etc.).

- *1) During **NIGHT** phase this set is substracted of the night reduction value that is programmed in COSt, rEd.h function.
- *2) When the obtained temperature of Limit probe exeeds the programmed t.Lin value (see Cost) you have to operate in this way:
 - *tYPE=0*: the base heating works with the soil probe and the limit probe is present. The limit function operates in a proportional way on the cold of the base heating (see COSt, function bC.Li, On.Li, OF.Li).
 - tYPE=1: the base heating works with the environmental probe and the limit probe is not present.
 - tYPE=2: the base heating works with the environmental probe and the limit probe is present. The limit function operates in this way: when the t.Lin limit temperature is exceed the programmed set on the base heating diminishes (set under **HEAT**key, *t.BAS* function) of *bC.Li* value (see **COSt**).







INSt PROGRAMMING (Installation constants)





These settings refer to the mode of operation of the system and must be made on initial start-up.

Press together -/+/LUX for at least one second: *INSt* message will be displayed. The *INSt* messages 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 **LUX** to escape and return to the *Run Mode*.

Mess.	Value	Meaning		
t.ri.1	60" Seconds total actioning time Ridge 1 window		*1)	
t.ri.2	60"	Seconds total actioning time Ridge 2 window	*1)	
t.LAt	60"	Seconds total actioning time Lateral window	*1)	
t.SHA	A 60" Seconds total actioning time Shadow window		*1)	
S.nig	20.00	D.00 Time (hours and minutes) of certain Night start condit.		
E.nig	05.00	Time (hours and minutes) of certain Night end condit.	*2)	
d.nig	00.00	Hours and minutes of morning shading delay	*3)	
tYPE	=0	Heating type	*4)	
A.in.1	1 0.0° °C correction Environmental temperature probe		*5)	
A.in.2	0.0°	°C correction Soil temperature probe	*5)	
A.in.3	0.0°	°C correction Limit temperature probe	*5)	
A.in.4	1.00N	Multlipicative factor of humidity probe correction		
A.in.5	0%	Klux correction Luminosity probe	*5)	

- *1) This time can be used to obtain the sure closing of the different windows, the different percentages of opening and closing of the windows programmed in **COSt** referred to these times.
- *2) Inside of these two times the **NIGHT** condition is certainly inserted, thet normally can be obtained by the luminosity programmed with the **NIGHT** key.
- *3) At the end of **NIGHT** condition (see *2) the reduction of night heating is immediately connected (see **COSt**, *red.n* function), while the programmed opening of shading(see **COSt**, *On.Lu* and *OF.Lu* function) is delayed of this time.
- *4) *tYPE=0*: the base heating works with the soil probe and the limit probe is present. The limit function operates in a proportional way on the cold of the base heating (see COSt, function *bC.Li*, *On.Li*, *OF.Li*).
 - **tYPE=1**: the base heating works with the environmental probe and the limit probe is not present.
 - tYPE=2: the base heating works with the environmental probe and the limit probe is present. The limit function operates in this way: when the t.Lin limit temperature is exceed the programmed set on the base heating diminishes (setted under HEATkey, t.BAS function) of dE.Li value (see COSt).
- *5) You can correct the readings on the sensor (+ or -).

COST PROGRAMMING (System constants)





These settings refer to the mode of operation of the system and must be made on initial start-up. Press together -/+/AMBIENT for at least one second: the message C.O.S.t. will be displayed. The COST messages are displayed in sequence if you press + to go forward or - to go back. When you reach the messagge required (see table below) press ALARM to confirm: set value of this variable will be displayed. Press + or - to set a new value and then **ALARM** to confirm: the next system constant will then appear.

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

r.CO.2 0.0° °C shift set R r.LAt 0.0° °C shift set L nb.ri 0.2° °C neutral ba bC.ri 5.0° °C modulatio bO.ri 1.0" Seconds acti OF.ri 60.0" Seconds acti nb.LA 0.2° °C Lateral ne bC.LA 5.0° °C modulatio bO.LA 5.0° °C modulatio con.LA 1.0" Seconds acti DF.LA 60.0" Seconds acti OF.LA 60.0" Seconds acti OF.LA 60.0" Seconds acti P.u.LA 0% % of opening	Meaning Ridge 1 referred to t.SEt Ridge 2 referred to t.SEt Rateral referred to t.SEt Ridge 1 and Ridge 2	Nota *1) *1) *1) *2) *2) *2) *2) *2)
r.CO.2 0.0° °C shift set R r.LAt 0.0° °C shift set L nb.ri 0.2° °C neutral ba bC.ri 5.0° °C modulatio bO.ri 1.0" Seconds acti OF.ri 60.0" Seconds acti nb.LA 0.2° °C Lateral ne bC.LA 5.0° °C modulatio bO.LA 5.0° °C modulatio con.LA 1.0" Seconds acti DF.LA 60.0" Seconds acti OF.LA 60.0" Seconds acti OF.LA 60.0" Seconds acti P.u.LA 0% % of opening	Ridge 2 referred to t.SEt ateral referred to t.SEt and Ridge 1 and Ridge 2 an band of closing Ridge 1 and Ridge 2 an band of opening Ridge 1 and Ridge 2 an band of opening Ridge 1 and Ridge 2 and ridge 2 and ridge 1 and Ridge 2 and ridge 2 and ridge 1 and ridge 2 and ridge 3 and ridge 3 and ridge 4 and ridge 4 and ridge 4 and ridge 5 and ridge 6 and ridge 6 and ridge 7 and ridge 7 and ridge 7 and ridge 8 and ridge 8 and ridge 9 and ridge 9 and ridge 9 and ridge 1 and ridge 9 and ridge 1 and ridge 1 and ridge 1 and ridge 2 and ridge 2 and ridge 1 and ridge 2 and ridge 2 and ridge 1 and ridge 2 and ridge 2 and ridge 2 and ridge 1 and ridge 2 and ri	*1) *1) *2) *2) *2) *2) *2) *2) *2) *2) *2) *3) *3)
r.LAt 0.0° °C shift set L nb.ri 0.2° °C neutral ba bC.ri 5.0° °C modulatio bO.ri 5.0° °C modulatio On.ri 1.0" Seconds acti OF.ri 60.0" Seconds acti nb.LA 0.2° °C Lateral ne bC.LA 5.0° °C modulatio bO.LA 5.0° °C modulatio DO.LA 1.0" Seconds acti OF.LA 60.0" Seconds acti P.u.LA 0% % of opening	ateral referred to t.SEt and Ridge 1 and Ridge 2 an band of closing Ridge 1 and Ridge 2 an band of opening Ridge 1 and Ridge 2 an band of opening Ridge 1 and Ridge 2 aterioring time in Off Ridge 1 and Ridge 2 aterioring time in Off Ridge 1 and Ridge 2 aterial band an band of closing Lateral an band of opening Lateral an band of opening Lateral aterioring time in Off Lateral aterioring time in Off Lateral aterial with WIND intervention (100=excluded) aterial with RAIN intervention (100=excluded) an eutral band attime morning opening	*1) *2) *2) *2) *2) *2) *2) *2) *2) *2) *2
nb.ri 0.2° °C neutral ba bC.ri 5.0° °C modulatio bO.ri 5.0° °C modulatio On.ri 1.0" Seconds action OF.ri 60.0" Seconds action nb.LA 0.2° °C Lateral new bC.LA 5.0° °C modulation bO.LA 5.0° °C modulation On.LA 1.0" Seconds action OF.LA 60.0" Seconds action P.u.LA 0% % of opening	and Ridge 1 and Ridge 2 In band of closing Ridge 1 and Ridge 2 In band of opening Ridge 1 and Ridge 2 In band of opening Ridge 1 and Ridge 2 In band of opening Ridge 1 and Ridge 2 In band of closing Lateral In band of opening Intervention (100=excluded) In band of opening opening	*2) *2) *2) *2) *2) *2) *2) *2) *2) *2)
bC.ri 5.0° °C modulation bO.ri 5.0° °C modulation On.ri 1.0" Seconds action OF.ri 60.0" Seconds action bC.LA 5.0° °C Lateral new bC.LA 5.0° °C modulation bO.LA 5.0° °C modulation On.LA 1.0" Seconds action OF.LA 60.0" Seconds action P.u.LA 0% % of opening	In band of closing Ridge 1 and Ridge 2 In band of opening Ridge 1 and Ridge 2 In band of opening Ridge 1 and Ridge 2 In band in Off Ridge 1 and Ridge 2 In band of closing Lateral In band of opening Lateral In band of opening Lateral In band in Off Lateral In Lateral with WIND intervention (100=excluded) In Lateral with RAIN intervention (100=excluded) In pand in opening band In band	*2) *2) *2) *2) *2) *2) *2) *2) *3) *3)
bO.ri 5.0° °C modulation On.ri 1.0" Seconds action OF.ri 60.0" Seconds action DE.LA 5.0° °C Lateral new DO.LA 5.0° °C modulation DO.LA 1.0" Seconds action OF.LA 60.0" Seconds action DE.LA 60.0" Seconds action DE.LA 0% % of opening	in band of opening Ridge 1 and Ridge 2 ioning time in On Ridge 1 and Ridge 2 ioning time in Off Ridge 1 and Ridge 2 ioning time in Off Ridge 1 and Ridge 2 ioning time in Off Ridge 1 and Ridge 2 ioning time in band of closing Lateral ioning time in On Lateral ioning time in Off Lateral	*2) *2) *2) *2) *2) *2) *2) *2) *2) *3) *3)
On.ri 1.0" Seconds acti OF.ri 60.0" Seconds acti nb.LA 0.2° °C Lateral ne bC.LA 5.0° °C modulatio bO.LA 5.0° °C modulatio On.LA 1.0" Seconds acti OF.LA 60.0" Seconds acti P.u.LA 0% % of opening	ioning time in On Ridge 1 and Ridge 2 ioning time in Off Ridge 1 and Ridge 2 eutral band in band of closing Lateral ioning time in On Lateral ioning time in On Lateral ioning time in Off Lateral j Lateral with WIND intervention (100=excluded) g Lateral with RAIN intervention (100=excluded) g neutral band time morning opening	*2) *2) *2) *2) *2) *2) *2) *2) *3) *3)
OF.ri 60.0" Seconds actinus. Compared to the c	coning time in Off Ridge 1 and Ridge 2 eutral band on band of closing Lateral on band of opening Lateral coning time in On Lateral coning time in Off Ridge 1 and Ridge 2	*2) *2) *2) *2) *2) *2) *3) *3)
nb.LA 0.2° °C Lateral ne bC.LA 5.0° °C modulatio bO.LA 5.0° °C modulatio On.LA 1.0" Seconds acti OF.LA 60.0" Seconds acti P.u.LA 0% % of opening	eutral band in band of closing Lateral in band of opening Lateral ioning time in On Lateral ioning time in Off Lateral ioning time in Off Lateral i Lateral with WIND intervention (100=excluded) ig Lateral with RAIN intervention (100=excluded) ig neutral band time morning opening	*2) *2) *2) *2) *2) *3) *3)
bC.LA 5.0° °C modulation bO.LA 5.0° °C modulation On.LA 1.0" Seconds action OF.LA 60.0" Seconds action P.u.LA 0% % of opening	in band of closing Lateral in band of opening Lateral ioning time in On Lateral ioning time in Off Lateral ioning time in Off Lateral I Lateral with WIND intervention (100=excluded) I Lateral with RAIN intervention (100=excluded) I neutral band I me morning opening	*2) *2) *2) *2) *3) *3)
DO.LA 5.0° °C modulation On.LA 1.0" Seconds action OF.LA 60.0" Seconds action P.U.LA 0% % of opening	in band of opening Lateral ioning time in On Lateral ioning time in Off Lateral ioning time in Off Lateral I Lateral with WIND intervention (100=excluded) I Lateral with RAIN intervention (100=excluded) I neutral band I me morning opening	*2) *2) *2) *3) *3)
On.LA 1.0" Seconds acti OF.LA 60.0" Seconds acti P.u.LA 0% % of opening	ioning time in On Lateral ioning time in Off Lateral Lateral with WIND intervention (100=excluded) Lateral with RAIN intervention (100=excluded) Lateral with RAIN intervention (100=excluded) Lateral band Lateral b	*2) *2) *3) *3)
OF.LA 60.0" Seconds action P.u.LA 0% % of opening	ioning time in Off Lateral Lateral with WIND intervention (100=excluded) Lateral with RAIN intervention (100=excluded) neutral band time morning opening	*2) *3) *3) *3)
P.u.LA 0% % of opening	Lateral with WIND intervention (100=excluded) Lateral with RAIN intervention (100=excluded) neutral band time morning opening	*3) *3) *3)
	g Lateral with RAIN intervention (100=excluded) g neutral band time morning opening	*3)
FILE UZA LYANTONENING	g neutral band time morning opening	*3)
	time morning opening	
	ume moning openig	*3) *3)
	ay time opening luminosity probe intervention	*3)
	ay time opening luminosity probe intervention	*3)
	of shading daily opening	*3)
	ure of Heat night reduction (0.0=excluded)	*2)
	and Base heating	*2)
	n band "Heat" Base heating	*2)
	n band "Cool" Base heating	*2)
10 0 11 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ioning time in on Base heating	*2)
	ioning time in off Base heating	*2)
nb.Hh 0.2° °C neutral ba		*2)
	on band "Heat" Help heating	*2)
	on band "Cool" Help heating	*2)
	ioning time in on Help heating	*2)
	ioning time in off Help heating	*2)
	perature set of soil heating	*3)
bC.Li 5.0° °C modulatio		*2)
	ioning time in on Limit	*2)
	ioning time in off Limit	*2)
	ment Heating Base with present Limit	*3)
	ridge opening with present RAIN condition	*3)
	delay time anememeter / pluviemeter intervention	*3)
t.dE.2 0.0" Seconds of 6	•	*3)
On.dE 60" Seconds of o	on Heating time in dehumidification	*3)
OF.dE 60" Seconds of s	stop Heat/Flap time in dehumidification	*3)
	idge opening time in dehumidification	*3)
	idge opening in dehumidification	*3)
	shade opening time in dehumidification	*3)
	shade opening in dehumidification	*3)

- *1) These sets are relative sets refferred to the temperature set on AMBIENT key (t.SEt function). For example if you set r.CO.1=-2.0, Ridge 1 set = -2.0°C reffered to t.SEt setting.
- *2) See See pag.8 Operative Diagrams.
- *3) See pag.10 Operative Diagrams.

PRESET PROGRAMS (Bootstrap).

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

To return to these settings at any time: press together + / - / ALARM keys for at least one second:

boot message will be displayed.

*t.***SE***t*=25.0° *L.***SE***t*=50.0L *t.***bAS**=20.0° *t.***HEL**=18.0°

L.nlg=0.1L **L.dAY=**0.5L

H.dEu=90% *AL.* =15.0° *AL-*=40.0°

INSt and **COST** value are shown in relative paragraph.

"HAND MODE".







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

Press together + / - / **HEAT** keys for at 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 + to increase relay number previous relay is disactivated. You can press **HEAT** 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.

Led	Azionamento	N° Relay	ContaCTS
RIDGE LEFT	Led flashing : Ridge left closed on	HD40-1	HD40 3-4
II .	Led continuous : Ridge left open on	HD40-2	HD40 5-6
RIDGE RIGHT	Led flashing : Ridge right closed on	HD40-3	HD40 7-8
"	Led continuous : Ridge right open on	HD40-4	HD40 9-10
LATER	Led flashing: Lateral closed on	HD40-5	HD40 11-12
"	Led continuous : Lateral left open on	HD40-6	HD40 13-14
SHADE	Led flashing : Shade closed on	HDY6-1	HDY6 3-4
"	Led continuous : Shade left open on	HDY6-2	HDY6 5-6
HEAT BASE	Led flashing: HEAT Base-Heating on	HDY6-3	HDY6 7-8
"	Led continuous : COOL Base-Heating	HDY6-4	HDY6 9-10
	on		
HEAT HELP	Led flashing: HEAT Help-Heating on	HDY6-5	HDY6 11-12
"	Led continuous : COOL Help-Heating	HDY6-6	HDY6 13-14
	on	110100	
ALARM	Temperature alarm on	HPAL-2	HPAL 7-8
NIGHT	Night condition on		
RAIN	Pluviometer signal on		
WIND L	Wind 1 signal on		
WIND R	Wind 2 signal on		