

INSTALLATION

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 line

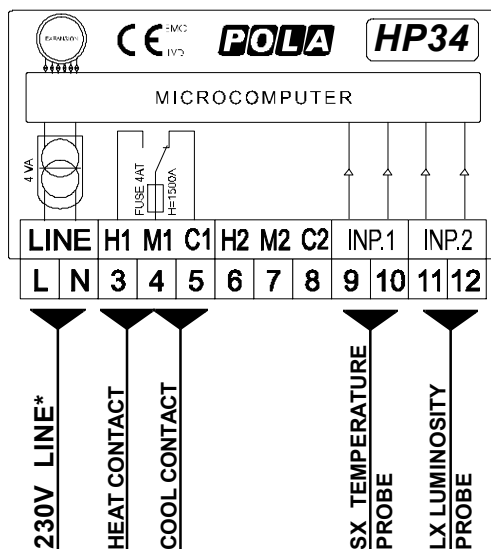
Connect 230V line on terminals **L-N**.

Protect supply with adequate fuse.

How to connect the contacts

Connect terminals on the terminal block

(contacts up to 4AMP.AC1) to the loads as shown in the diagram.



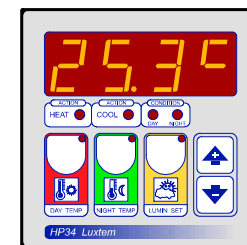
* Other power voltage if you required

HP34

SL 4.0

Temperature-Luminosity controller

Handbook



MAIN SETTINGS (Run Mode)

DAY SET TEMPERATURE SETTING.



Press **DAY TEMP** (key lamp flashes):

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

Press + or - to modify, press **DAY TEMP** to confirm.

d.5Et

NIGHT SET TEMPERATURE SETTING.



Press **NIGHT TEMP** (key lamp flashes):

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

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

n.5Et

DAY/NIGHT CONDITION SETTING.



Press **LUMIN SET** (key lamp flashes):

This message will be displayed instead of the % Set Day/Night condition.

Press + or - to modify, press **LUMIN SET** to confirm*.

L.5Et

* Down this luminosity **Night** condition is on: up this luminosity **Day** condition is on. Luminosity is represented in **0.0-99.9** ; **0.0** represents total dark, **99.9** represents maximum luminosity.

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 **LUMIN SET** until the message regarding the chosen variable is displayed (see table below): variable's value and message will be displayed.

Press + or - to set a new value and then press **LUMIN SET** to confirm.

The next system constant will then appear.

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

Mess.	Value	Meaning	Note
diF.t	0.2°	°C temperature differential	*1
diF.L	1.0%	% Luminosity differential	*1
t.dur	0"	Day-Night transition delay (seconds)	*1
tEnP	= 1	Temperature representation (=1 °C, =2 °F)	*2
Ad.tE	0.0°	°C Input temperature correction (+ or -)	*3
Ad.Lu	0.0%	% Input luminosity 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 (Bootstrap)



At delivery this processor is programmed with the following (variable) settings. To return to these settings at any time.

Power off the processor, press **LUMIN SET** key and keep it pressed giving power on: release **LUMIN SET** key when on the screen **boot** message appears.

d.SET =25.0° **n.SET =20.0°** **L.SET = 30.0%**

The **COS_t** values are shown in **COS_t** paragraphs.

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 (see table *Status indication lamp*) and push **LUMIN SET** for activating relay.

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

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

STATUS INDICATION LAMPS

The light situated at the bottom of the display shows the state of the controller:

Lamp.	State	N° Relay	Contact
HEAT	Heat On	1	3-4
COOL	Cool On	1	4-5
DAY	Day condition On		
NIGHT	Night condition On		

OPERATIVE DIAGRAMS

