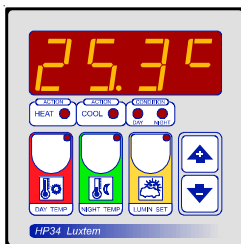


# HP34

SL 2.0

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.SET

### 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.SET

### 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.SET

\* 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.

## 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 **LUMIN SET** 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 **LUMIN SET** to confirm.  
The next system constant will then appear.  
You can press **LUMIN SET** for a least two second to escape and return to the *Run Mode* .

Mess.	Value	Meaning	Note
diF.t	0.2°	°C temperature differential	*1
diF.L	1.0	°C Luminosity differential	*1
t.dur	0'	Day-Night transition delay (minutes)	*1
tEnP	= 1	Temperature representation (=1 °C, =2 °F)	*2
Ad.tE	0.0°	°C Input temperature correction (+ or -)	*3
Ad.Lu	0.0	°C 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) Sensor reading can be adjusted by pressing the + or - keys

## PRESET PROGRAMS

This processor comes already with a preset variable settings.  
To reset it to these settings, switch processor off then press **LUMIN SET** key and keep it pressed giving power on: release **LUMIN SET** key when on the screen appear **boot** message.  
**d.SET = 25.0° n.SET = 20.0° L.SET = 30.0**  
The **COS**t values are shown in **COS**t paragraphs.

## "HAND MODE"

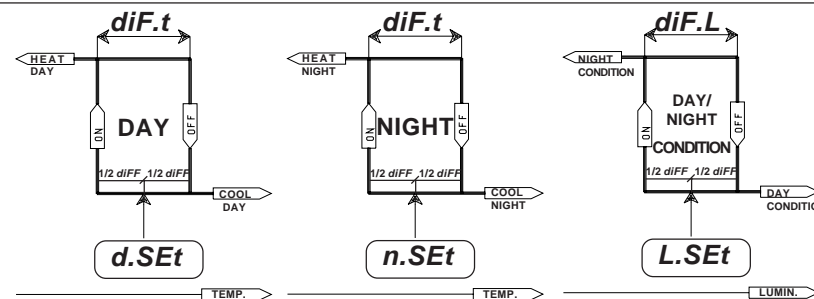
In some start-up conditions may be useful to work in "hand" mode.  
Power off the processor, press + key and keep it pressed giving power on:  
**Hand** message will be displayed (release now + key).  
Push + until is displayed number required to be handed (see table relays "N° Relay") and push **LUMIN SET** for activating relay.  
Pushing again + for increase relay number previous relay is deactivated.  
You can press **LUMIN SET** for a least two seconds 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	Contact
HEAT	Heat On	1	3-4
COOL	Cool On	1	4-5
DAY	Day condition On		
NIGHT	Night condition On		

## OPERATIVE DIAGRAMS



## INSTALLATION

### How to connect the line

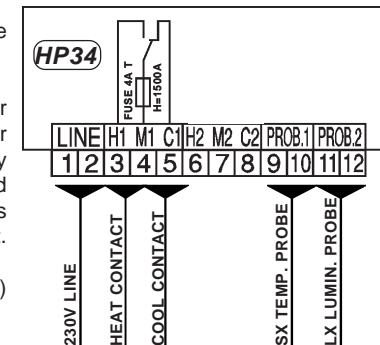
Connect line on terminals **L-N**; protect supply with adequate fuse.

### How to connect the sensors

Connect the sensors provided as shown in the diagram. For remote connections use a standard 0.5-square 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.

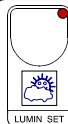
### How to connect the contacts

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



As it company policy to continually improve the products the Manufacturers reserve the right to make any modifications thereto without prior notice. They cannot be held liable for any damage due to malfunction.

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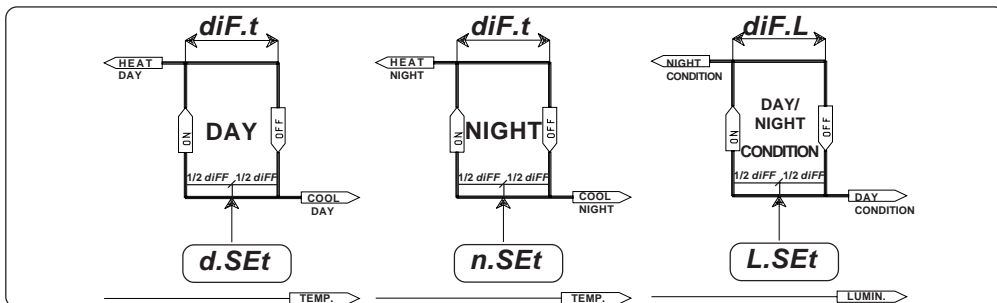
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