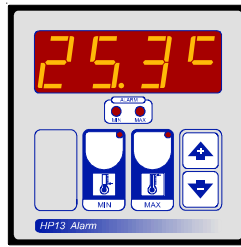


# HP13

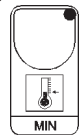
SL 3.0

Double-level alarm

Handbook



## Main settings (Run Mode).

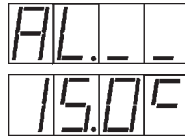


### MINIMUM TEMPERATURE ALARM.

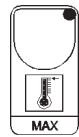
Press **MIN** (key lamp flashes):

This message will be displayed instead of the °Set 1 temperature value.

Press + or - to modify. Press **MIN** to confirm.



Example AL\_\_ = 15.0°

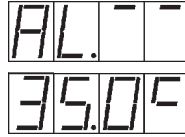


### MAXIMUM TEMPERATURE ALARM.

Press **MAX** (key lamp flashes):

This message will be displayed instead of the °Set 2 temperature value.

Press + or - to modify. Press **MAX** to confirm.



Example AL-- = 35.0°

### SWITCH-OFF ALARM.

Press **MIN** and **MAX** together to switch-off alarm: the message **-oF-** will be displayed. Press **MIN** to switch-on the alarm: the probe temperature will be displayed.

## 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.

## 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 **SET 2** 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 **SET 2** to confirm.

The next system constant will then appear.

You can press **SET 2** for a least two second to escape and return to the *Run Mode* .

| Mess. | Value | Meaning  | Note |
|-------|-------|--|------|
| tEnP  | =1    | Temperature representation (=1 °C, =2 °F)      | *1)  |
| Ad.tE | 0.0°  | ° Input temperature sensor correction (+ or -) | *2)  |
| StAr  | =0    | Alarm contact output at power on               | *3)  |

\*1) tEnP =1 : °C Temperature range.  
tEnP =2 : °F Temperature range.

\*2) You can correct the readings on the various sensors (+ or -).

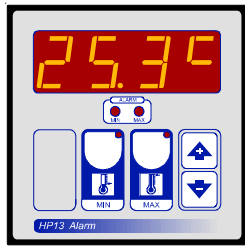
\*3) =0 : Normal. =1 : Alarm during power on.

# HP13

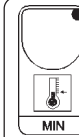
SL 3.0

Double-level alarm

Handbook



## Main settings (Run Mode).

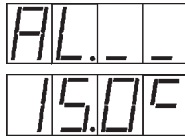


### MINIMUM TEMPERATURE ALARM.

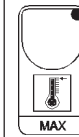
Press **MIN** (key lamp flashes):

This message will be displayed instead of the °Set 1 temperature value.

Press + or - to modify. Press **MIN** to confirm.



Example AL\_\_ = 15.0°

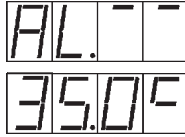


### MAXIMUM TEMPERATURE ALARM.

Press **MAX** (key lamp flashes):

This message will be displayed instead of the °Set 2 temperature value.

Press + or - to modify. Press **MAX** to confirm.



Example AL-- = 35.0°

### SWITCH-OFF ALARM.

Press **MIN** and **MAX** together to switch-off alarm: the message **-oF-** will be displayed. Press **MIN** to switch-on the alarm: the probe temperature will be displayed.

## Viewing temperature recording.

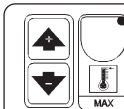


Press + : will be displayed followed by °Maximum Temperature Recording.

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.

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tEnP =2 : °F Temperature range.

\*2) You can correct the readings on the various sensors (+ or -).

\*3) =0 : Normal. =1 : Alarm during power on.

### Preset programs.

This processor is ready programmed with the following (variable) settings.  
 To return to these settings at any time:  
 Power off the processor, press **MAX** key and keep it pressed giving power on release **MAX** key when on the screen appear **boot** message.  
**AL\_ \_ = 15.0° AL - - = 35.0°**  
 The **COST** values are shown in **COST** paragraphs.

### "Hand mode".

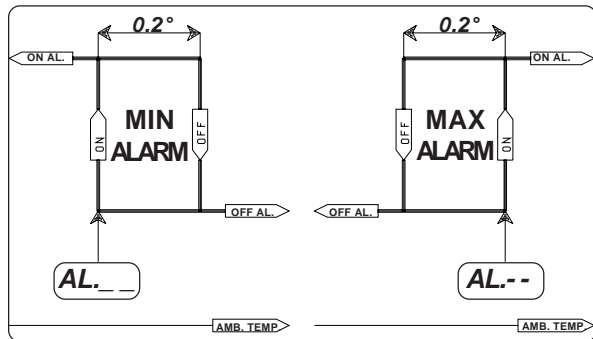
In some start-up conditions may be useful to work in "hand" mode.  
 Power off the processor, press **+** key and keep it pressed giving power on:  
**HAnd** message will be displayed (release now **+** key).  
 Push **+** (**1** is displayed) and push **MAX** for activating relay.  
 You can press **MAX** for a least two seconds to escape and return to the *Run Mode*.

### State indications 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 | Contacts |
|------------|------------------|----------|----------|
| <b>MIN</b> | Minimum Alarm On | 1        | 3-4-5    |
| <b>MAX</b> | Maximum Alarm On | 1        | 3-4-5    |

### Operative diagram

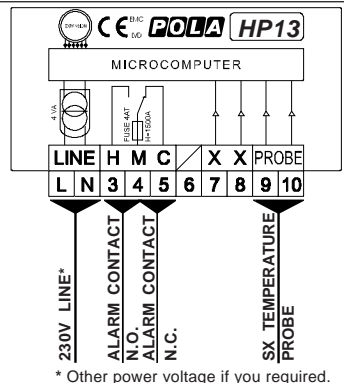


### Installation.

**How to connect the line**  
 Connect 230V 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 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 contacts**  
 Connect terminals on the terminal block (contacts up to 4AMP.AC1) to the loads as shown in the diagram.



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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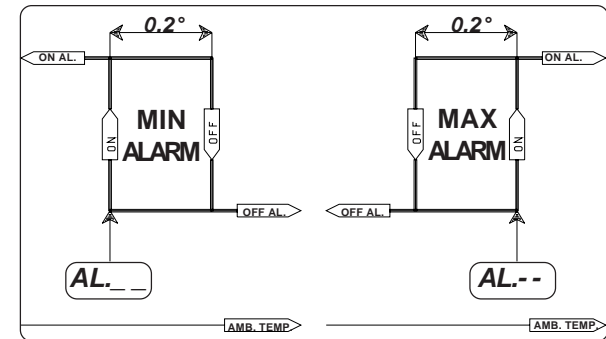
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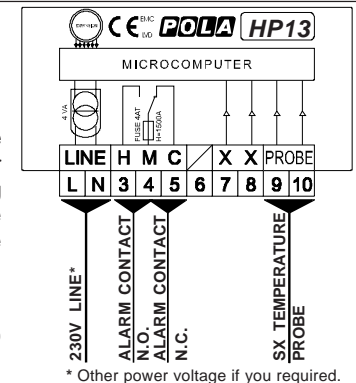


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