HP13

SL 3.0
Double-level alarm

Handbook

25.3°c

HP13 Alarm

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.

AL._ _
15.0°c
Example **AL _ _ = 15.0°**
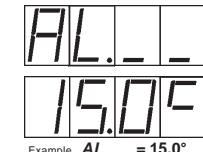
MAXIMUM TEMPERATURE ALARM.
Press **MAX** (key lamp flashes)**:**
This message will be displayed instead of the
°*Set 2 temperature value* .
Press **+** or **-** to modify. Press **MAX** to confirm.

AL.⁻⁻
35.0°c
Example **AL - - = 35.0°**
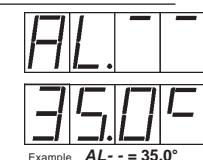
SWITCH-OFF ALARM.
Press **MIN** and **MAX** together to switch-off alarm: the message **-oF-** will be displayed.
Press **MIN** to switch-on the alarm: the probe temperature will be displayed.

Viewing temperature recording.

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

Press **-** : **I⁻.** 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 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 than repeatedly **MAX** 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 **MAX** to confirm.
The next system constant will then appear.
You can press **MAX** for at least 2 seconds to exit 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.
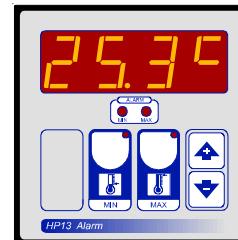
PRESET PROGRAMS

At delivery this processor is 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 *boot* message appears.   **AL_ _ = 15.0°   AL - - = 35.0°**
The **COSt** values are shown in **COSt** paragraphs.

MANUAL MODE

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

STATE INDICATION LAMPS

The lights situated at the bottom of the display show the state of the relay.

Lamp.	State	N°Relay	Contacts
MIN	Minimum Alarm On	1	3-4-5
MAX	Maximum Alarm On	1	3-4-5

OPERATIVE DIAGRAM
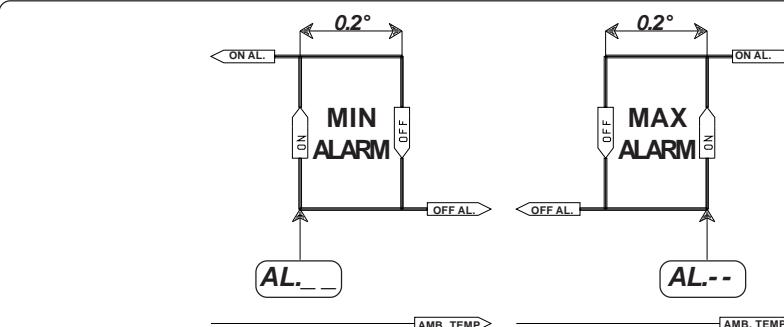
INSTALLATION

How to connect the line
Connect 230V line on terminals **L-N**.
Protect supply with adequate fuse.

How to connect the sensors
Connect the provided sensor as shown in the diagram.
For remote connections use a standard 0.5-square millimetre 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
Connect terminals on the terminal block (contacts up to 4AMP.AC1) to the loads as shown in the diagram.

POLA HP13
MICROCOMPUTER

| LINE | | H | M | C | | X | X | PROBE |
| L | N | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

230V LINE* / ALARM CONTACT N.O. / ALARM CONTACT N.C. / SX TEMPERATURE PROBE

* Other power voltage if you required.

POLA CE

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