

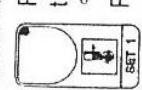
HP22

SL 1.3

Double-level thermostat

Handbook

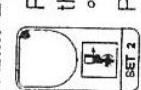
MAIN SETTING (Run Mode).
These settings are only concerning the user.

TEMPERATURE 1 SETTING

Press SET 1 (key lamp flashes):

◦ this message will be displayed instead of the
◦ Set temperature 1 value.

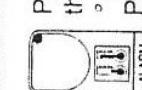
Press + or - to modify, press SET 1 to escape.

TEMPERATURE 2 SETTING

Press SET 2 (key lamp flashes):

◦ this message will be displayed instead of the
◦ Set temperature 2 value.

Press + or - to modify, press SET 2 to escape.

ALARM PARAMETER SETTING

Press ALARM (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 escape.

Alarm outputs are available only with HPAL optional slot.

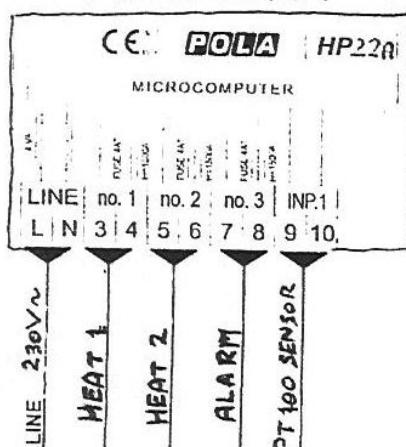
VIEWING TEMPERATURE RECORDING

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 + key for more than 3 seconds.
CLEA message will be composed on display before clearing operation.

-connections:

**PT100 READING TYPICALS (-100°C ÷ 300)**

PRECISION :	0,5%
LINEARITY :	1,5°C
INTERNAL RESOLUTION :	0,5°C
PT100 EXCITATION (@0°C) :	30mW
ABSOLUTE RANGE :	-200 ÷ 600°C

I = 16mA , NO DEGRADATION OF RELIABILITY, TYP. LESS THAN 1°C OVERHEATING IN LIQUID.

POLA

COST Programming

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

Press -/+ together for at least one second.

Then Press ALARM repeatedly until interested variable's message is displayed (see table below): variable values and related messages 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 ALARM for a least two second to escape and return to the Run Mode.

Mess. Value	Meaning
diF_1	differential of SETPOINT 1 (0 to 50 Deg.C)
diF_2	differential of SETPOINT 2 (0 to 50 Deg.C)
t_on_H	Time delay in seconds of relay 1 & 2(0 to 999 seconds)
AL_--	Low alarm setting (0 to 199 Deg.C)
AL_--	High alarm setting (0 to 199 Deg.C)
t_on_	Time delay of Low alarm (0 to 999 seconds)
t_on--	Time delay of High alarm (0 to 999 seconds)
RV_AL	Alarm relay status 0 = N.O. 1 = N.C.
tEmp	temperature representation (=1'C, =2'F)
Ad.tE	Display Calibration (-50 to 50 Deg. C)

STATE INDICATION LAMPS

The light situated at the bottom of the display show the state of the various relays set out below:

Lamp.	Meaning	N' Relay	Contacts
HEAT (1)	Heat 1 On	1	3-4
HEAT (2)	Heat 2 On	2	5-6
ALARM (1)	ALARM	3	7-8

At delivery this control is ready programmed with the following (variable) settings.

To return to these settings at any time:

Power off the control, press ALARM key and keep it pressed put power on.

: boot message will be displayed (release now ALARM key).

Set 1=165' Set2=175*AL---=0.0' AL---=190.0'

The COST values are shown in COST Programming

HP22A

3.0

15/4/2002

TO: PROTHERM (GB)

Sets list:

SET. 1 165°C
 SET. 2 175°C } RANGE 0°C ÷ 180°C

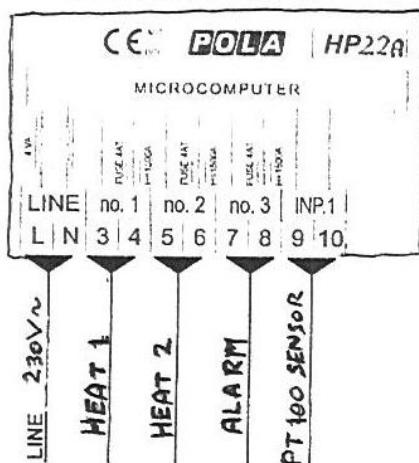
AL---, AL-- : VIEWABLE BUT NOT CHANGEABLE (SEE COST)

COST list: (PROGRAM)

RANGE: TO ENTER PRESS & HOLD ▲+▼ KEYS FOR
 3 SECONDS. PRESS ALARM KEY TO MOVE
 DOWN Cost list. PRESS & HOLD ALARM KEY
 DIFFERENTIAL OF SET 1 TO EXIT.

dIF. 1	2°C	(0°C ÷ 50°C)	" " " SET 2
dIF. 2	2°C	" "	" "
t.on.H	5"	(0" ÷ 999")	TIME DELAY IN SECONDS OF RELAY 1&2
AL---	0°C	(0°C ÷ 190°C)	LOW ALARM SETTING
AL.--	190°C	" "	HIGH ALARM SETTING
t.on.-	0"	(0" ÷ 999")	TIME DELAY IN SECONDS LOW ALARM
t.on.-	0"	" "	" " " HIGH ALARM
rY.AL	= 0	N.O. ; = 1 N.C.	ALARM RELAY STATUS 0 = NO 1 = NC
Ad.tE	0°C	(-50°C ÷ 50°C)	CALIBRATION
tEnP	= 1	; °C ; = 2:°F	°C or °F DISPLAY

-connections:



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