



## **ECONOPLATE EOB HP17 CONTROLLER**

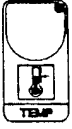
### **INSTALLATION & OPERATION DOCUMENTATION**

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## CONTROLLER TYPE HP17

### MAIN SETTING (Run Mode)

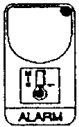


#### TEMPERATURE SETTING

Press TEMP SET (key lamp flashes): the following message will be displayed alternating with the set temperature value.

F.S.E.F

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

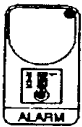


#### MINIMUM ALARM TEMPERATURE

Press ALARM MIN (Key lamp flashes): the following message will be displayed alternating with the set Minimum temperature value.

AL.\_.\_

Press + or - to modify, press MIN ALARM to escape\*.



#### MAXIMUM ALARM TEMPERATURE

Press ALARM MAX (key lamp flashes): the following message will be displayed alternating with the set Maximum temperature value.

AL.\_.\_

Press + or - to modify, press MAX ALARM to escape\*.

\* If alarm option o.ALA=1 (see COSt) the c.AL\_ or c.AL-message appears on the display.

If alarm option o.ALA=2 (see COSt) the r.AL\_ or r.AL- message appears on the display.

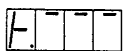
The alarm temperatures cannot be reset in the run mode if either of these alarm modes have been selected.

## **VIEWING RECORDED TEMPERATURES**



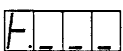
Press + and hold

The following will be displayed followed by the Maximum Temperature Recording



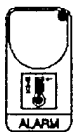
Press - and hold

The following will be displayed followed by the Minimum Temperature Recording



Values recorded are memory permanent : for memory clear, keep the + key pressed for more than 3 seconds: CLEA message will be composed on the display before clearing.

## **PRESET PROGRAMS**



At delivery this processor is pre-programmed with the following (variable) settings. To return to these settings at any time: Power off the processor, press the ALARM MAX key. Keep the key pressed and turn the power on: the boot message will be displayed, (now release the ALARM MAX key).

$t.SET=25.0^{\circ}$     $AL\_ \_ = 10.0^{\circ}$     $AL- - = 30.0^{\circ}$   
The COST values are shown in the COST Programming.

## **COST PROGRAMMING** (System constants)

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. The message C.O.S.t. will be displayed.



Press ALARM MAX repeatedly until the correct message is displayed (see table below). The value and message will be displayed alternately. Press + or - to input a new value and then ALARM to confirm. The next system constant will then appear. You can press ALARM MAX for at least two seconds to escape and return to the Run Mode.

Message.	Set Value	System Constant.	Note
diFF	0.2 <sup>0</sup>	<sup>0</sup> Switching Differential	* 1)
o.ALA	=0	Alarm setting mode	* 2)
C.AI <sub>-</sub>	0.0 <sup>0</sup>	<sup>0</sup> Set temperature minimum alarm	* 3)
C.AI <sub>+</sub>	40.0 <sup>0</sup>	<sup>0</sup> Set temperature maximum alarm	* 3)
tEnP	=1	Temperature representation (1= <sup>0</sup> C 2 = <sup>0</sup> F)	* 4)
Ad.tE	0.0 <sup>0</sup>	<sup>0</sup> Input temperature sensor correction (+ or-)	* 5)

- \* 1) The switching differential is evenly split either side of the set point
- \* 2) o.ALA=0: Minimum and maximum alarm values user adjustable (see ALARM keys). (FACTORY SETTING).  
o.ALA=1: Minimum and maximum alarms as absolute values (see Note \* 3).  
o.ALA+2: Minimum and maximum alarm as a differential setting (see Note \* 3).
- \* 3) If o.ALA=1: Minimum or maximum absolute alarm values can be set.  
If o.ALA=2: Minimum or maximum differential alarm values can be set
- \* 4) :=1 : <sup>0</sup>C Temperature range .  
:=2 : <sup>0</sup>F Temperature range
- \* 5) You can correct the readings on the various sensors (+ or -)

## **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	Relay	Contact
HEAT	Heat On/Pump On	1	3-4
COOL	Heat Off/Pump Off	1	4-5
AL.MIN	Minimum Temperature Alarm On	2	6-7-8
AL.MAX	Maximum Temperature Alarm On	2	6-7-8

## **INSTALLATION**

### How to connect the supply to the controller

The electrical supply should be taken from a fused isolator in accordance with current IEE regulations. Connect the supply to the terminal strip L-N-E.

### How to connect the sensor.

Connect the sensor provided as shown in the diagram. For remote connections use a standard 0.5 square millimeter two core wire, taking great care over the connections, by insulating and sealing the joints carefully. -0.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 to the alarm contacts

Connect to terminals on the HP17 (contacts up to 4AMP.AC1).

