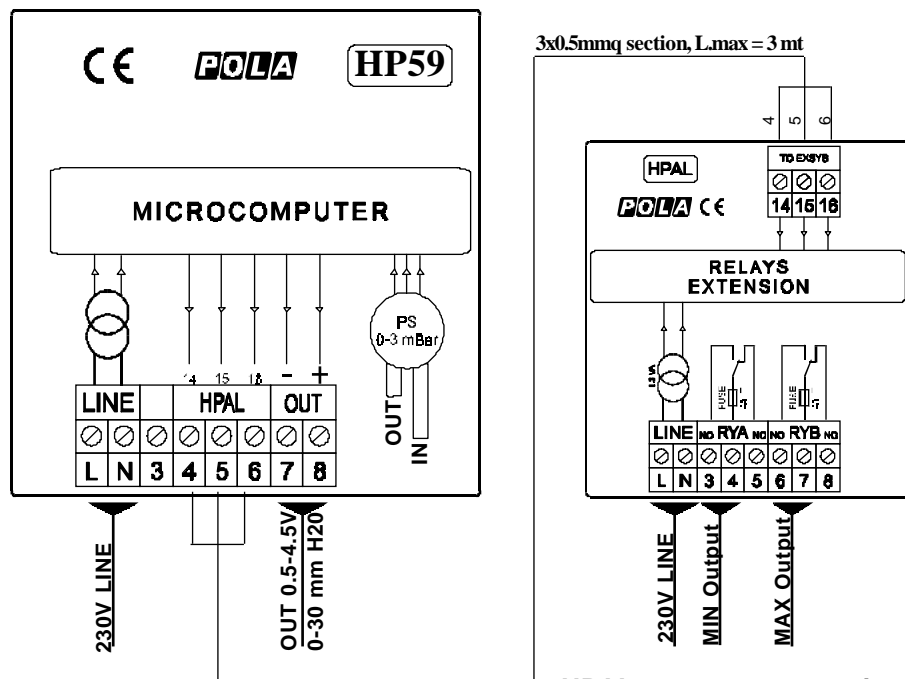


## INSTALLATION

Pressure range= 0 / 3mBar (0.0 / 30.0mmH2O).  
Maximum permissive pressure= 3mBar (30mmH2O).  
Operating temperature= 0 - 70°C  
Waterproof= IP55



IN= Ambient air input (pressure +).  
OUT= External air input (pressure -).

### How to connect the line

Connect 230V line on terminals L-N. Protect supply with adequate fuse.

To obtain maximum precision of pressure control, place HP59/W in vertical position.

### HPAL contacts connection:

Contact relays are free voltage, max **4AMP AC1**, fuses protection are **4A T H=35A**.

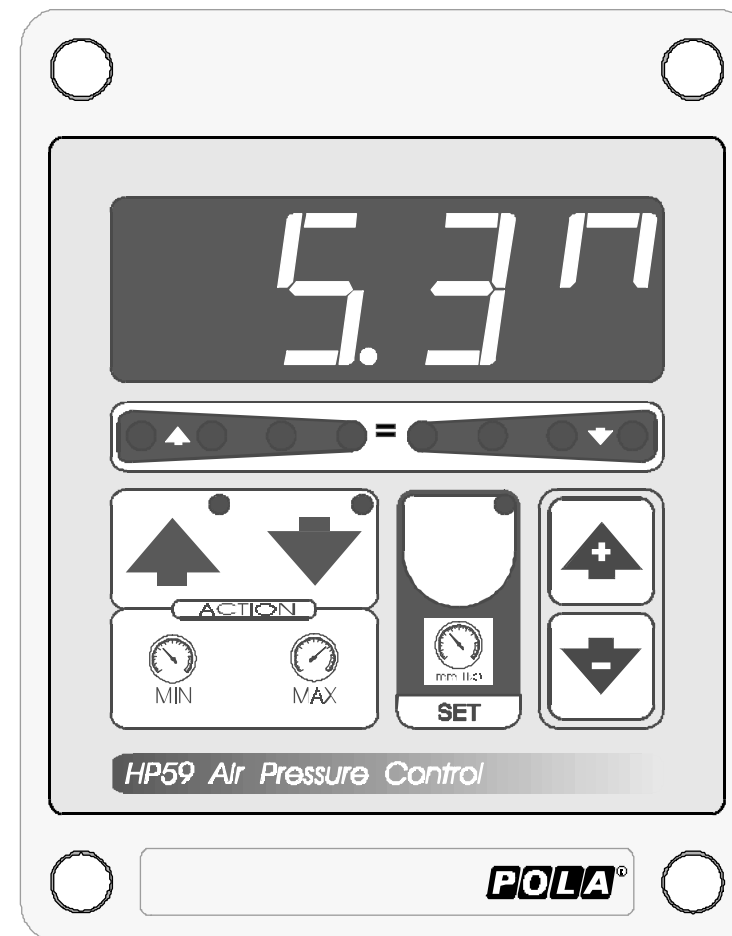
# HP59/W

SL 3.0

Air pressure controller



Handbook



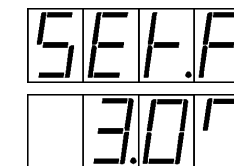
## MAIN SETTING (Run Mode).



### PRESSURE SETTING

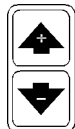
Press **SET** (key lamp flashes): this message will be displayed instead of the ° Set temperature value Set Pression (mm H2O).

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



Example with Set.P = 3.0

## 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 then repeatedly **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 **SET** to confirm.

The next system constant will then appear.

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

Mess.	Value	Meaning	Note
<b>n.b.</b>	<b>1.0</b>	Neutral band (mmH20).	*1
<b>diF.P</b>	<b>0.2</b>	Pressure differential (mmH20).	*1
<b>t.oF</b>	<b>2"</b>	Waiting time of actioning	*2
<b>t.on</b>	<b>2"</b>	Working time of actioning	*2
<b>IntE</b>	<b>1"</b>	Pressure reading integration time	
<b>ABLE</b>	<b>=1</b>	Key SET abilitation	*3
<b>Ad.Pr</b>	<b>0.0</b>	Pressure sensor correction (+ o -)	

\*1) For more details see *Operative Diagrams*.

\*2) When actioning is required (**MIN** o **MAX**) , the request must remain for a higer time than **t.oF**, then come execute for the time **t.On** and again wait for the time **t.oF**, and so on until remain the request of actioning.

With **t.oF=0** the request of actioning come execute without delay time.

\*3) Key **SET** qualification:

**=0** key not able (pressing **SET no-oP** message will be displayed).

**=1** Key able.

## PRESET PROGRAMS (Bootstrap).



At delivery this processor is ready programmed with the following (variable) settings. To return to these settings at any time:

Power off the processor, press **SET** key and keep it pressed giving power on: when **boot** full message will be displayed (release now **SET** key). **SEt.P=3.0**

The **COSt** values are shown in *COSt Programming*.

## "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 (1= relay **MIN**, 2=relay **MAX**) and push **SET** for activating relay.

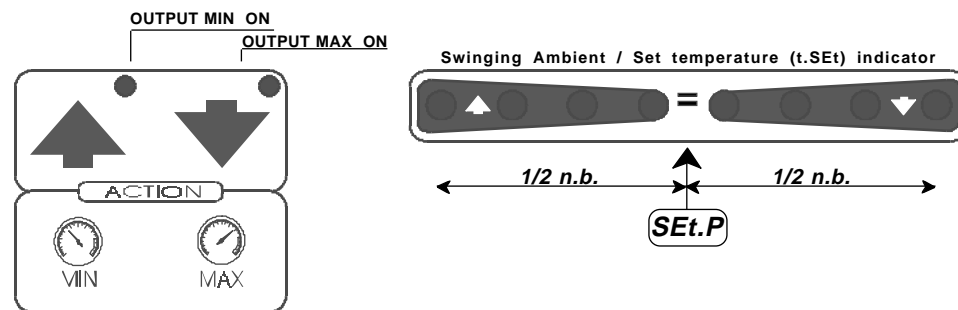
Pushing again **+** for increase relay number previous relay is disactivated.

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

## STATE INDICATION LAMPS.

Lamp.	Actioning	N° relay	HPAL contacts
<b>MIN</b>	MIN On actioning	RYA	3-4-5
<b>MAX</b>	MAX On actioning	RYB	6-7-8

If **t.Of** and **t.On** time worked (see **COSt**), **MIN** and **MAX** lamp flash during the request of actioning, and lighting during the action of the relay.



## OPERATIVE DIAGRAM.

