INSTALLATION

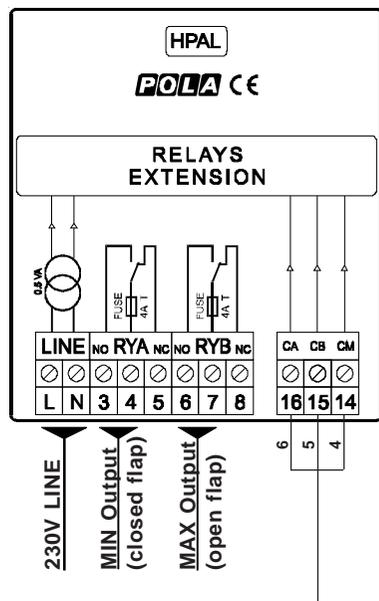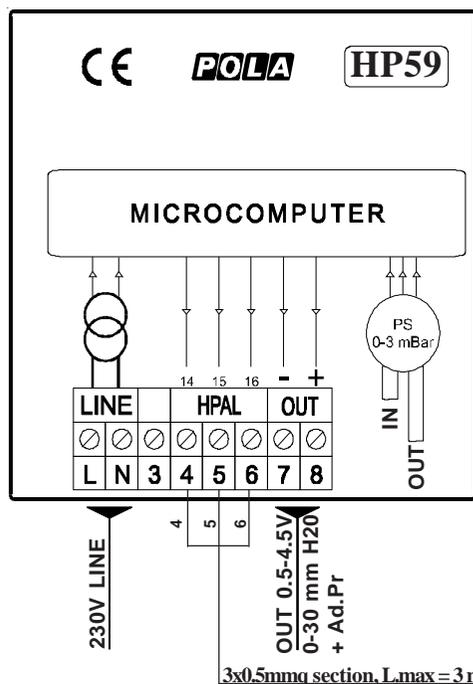**Pressure range= 0 / 3mBar (0.0 / 30.0mmH20) (0 / 300Pascal).**
Maximum allowed pressure= 3mBar (30mmH20) (300Pascal).
Operating temperature= 0 - 70°C
Waterproof= IP55

1mBar=10mmH2o=100Pascal

IN= Indoor air input (pressure -)
OUT= Outdoor air input (pressure +)

HPAL contacts connection:
Contact relays are free voltage, max 4AMP AC1, fuses protection are 4A T H=35A.

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

How to connect pressur tubes.
Connect at **HP59/W** the **PA** box terminal (**OUT** is to connect with the outdoor of the environment , **IN** is to connect with the indoor of the environment), inserting the filters in dotation on the final part of air-tubes: *when we close the cover of HP59/W verify that the air-tubes, inside the module, do not get squashed.*

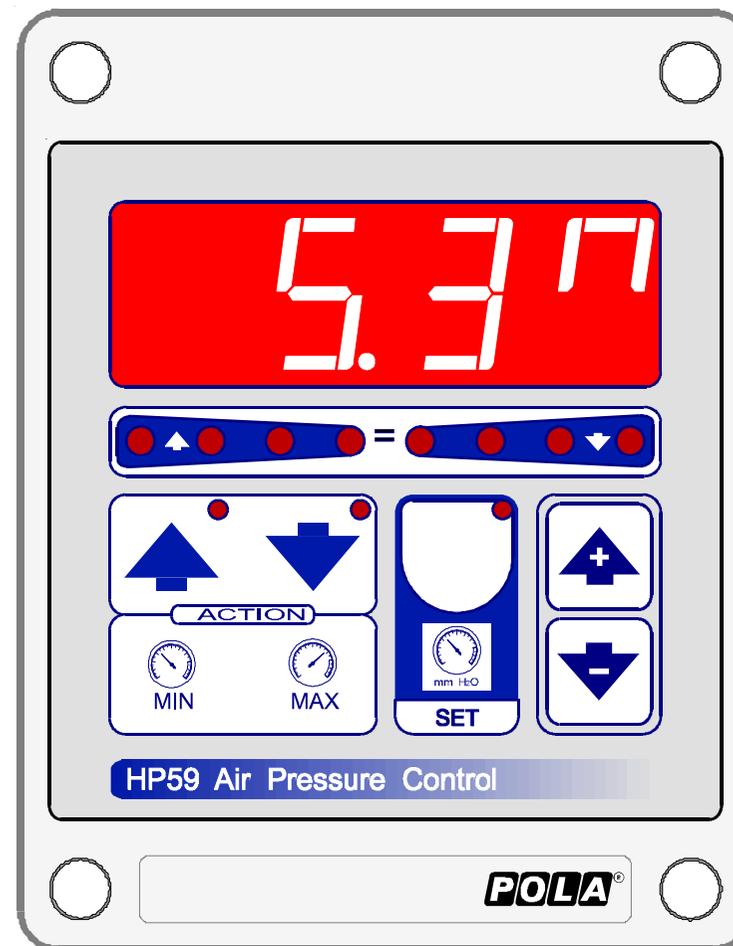**To obtain maximum accuracy of pressure control, place HP59/W in vertical position.**

08.01.13

HP59/W
SL 3.1
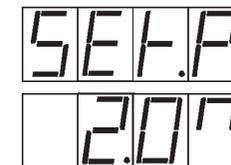*Air pressure controller*

Handbook
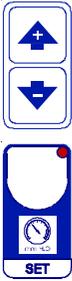

MAIN SETTING *(Run Mode).*

PRESSURE SETTING
Press **SET** (key lamp flashes): this message will be displayed instead of the *°Set Pression (mm H2o).*
Press **+** or **-** to modify, press **SET** to escape.

Example with *Set.P = 2.0*

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 **SET** until the message regarding the chosen variable is displayed (see table below) : value of variable and message will be displayed.

Press + or - to set a new value and then press **SET** to confirm.

The next system constant will then appear.

You can press **SET** for at least 2 seconds to exit and return to the Run Mode.

Mess.	Value	Meaning	Note
n.b.	1.0	Neutral band (mmH20).	*1
diF.P	0.2	Pressure differential (mmH20).	*1
t.oF	0"	Waiting time of actioning	*2
t.on	2"	Working time of actioning	*2
IntE	1"	Pressure reading integration time	
ABLE	=1	Key SET abilitation	*3
Ad.Pr	±0.X	Pressure sensor correction (+ o -)	*4

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

***2)** When actioning is required (**MIN** o **MAX**) , the request must remain for a longer time than *t.oF*, then it is executed 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 it is executed without delay time.

***3)** Key **SET** qualification:
=0 key not able (pressing **SET** *no-OP* message will be displayed).
=1 Key able.

***4)** See factorie's value declared into the module.

PRESET PROGRAMS (Bootstrap).

This processor is already programmed with the following (variable) settings. To return to these settings at any time you may:

Power off the processor, press **SET** key and keep it pressed giving power on: *boot* message will be displayed (release now **SET** key).
SEt.P=2.0 The **COSt** values are shown in *COSt Programming.*

MANUAL MODE

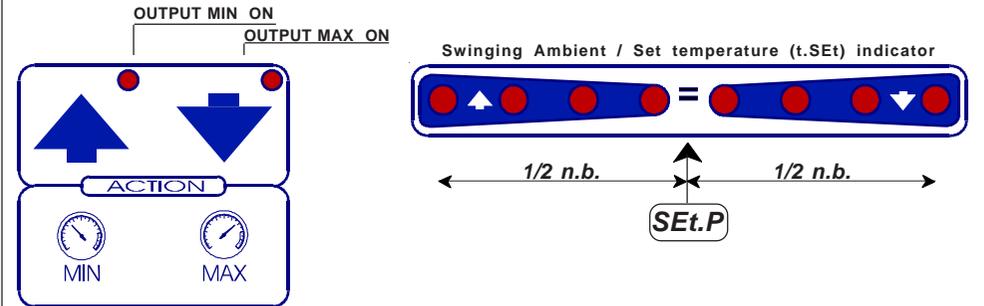In some start-up conditions it may be useful to work in "hand" mode:

Power off the processor, press **+** key and keep it pressed giving power on: *HAnd* message will be displayed (release now **+** key).
Press **+** until the number required to be handed (**1**= relay **MIN**, **2**=realy **MAX**) is displayed and push **SET** for activating the relay.
Pushing again **+** for increasing the relay number, the previous one is disabled.
Press **SET** key for a least two seconds to escape and return to the *Run Mode*.

STATE INDICATION LAMPS.

Lamp.	Actioning	N° relay	HPAL contacts
MIN	MIN On actioning	RYA	3-4-5
MAX	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.