INSTALLATION
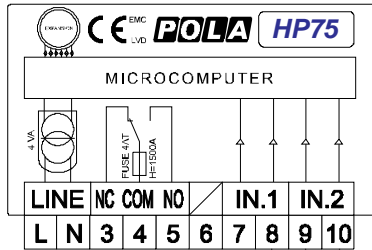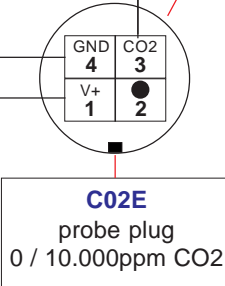

Alarm contact:
3-4 are closed for intervention alarm or for black-out
4-5 are open for intervention alarm or for black-out

⚠️ **Connection with CO2E probe**
To connect the **CO2E** probes and the **HP75/W** module use three-wire cable 0,5 mm2 section. Max length = 100mt

Note: Install the probe at the same height as the head of the animals (make sure does not come in touch with them) in order to have an accurate reading of the breathed CO2.
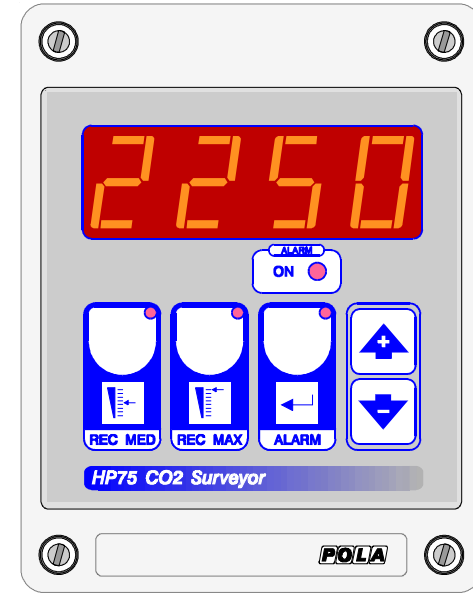
Note: Accuracy of time base is 1%. During the black-out, timing is kept in stand-by. (i.e. in case of 1 hour black out, on next days the recording interval will be 24+1 hours).
* Also available with 12V power supply.
When using our **HBAT**+**BA** power kit the unit can stand about 10 hours black-out.

GND	CO2
4	**3**
V+	
1	**2**

C02E
probe plug
0 / 10.000ppm CO2

24.01.14

HP75/W
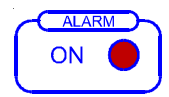**SL 4.0**
C02 Surveyor
Handbook

HP75/W keeps control on the CO2 ambient value and records the min/max daily value up to 90 days cycle (and hourly values of the last 48 hours).
Afterwards the oldest daily and hourly records are automatically deleted by the new ones.
A CO2 alarm value can be set so an output contact is activated.

HOW TO SET THE MAX CO2 LEVEL

Press **ALARM** (key lamp flashes):
This message will be displayed instead of the *°C Set Maximum C02 (ppm)*.
Press **+** or **-** to modify. Press **ALARM** to confirm.

The MAX CO2 value alarm intervention is signalled by the blinking of the **ALARM** led (which keeps on blinking during all the alarm delay time).

VIEW MEDIUM/MAXIMUM CO2 DAILY VALUE

Press either the **REC MED** or the **REC MAX** key (key lamp flashes).
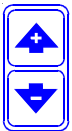Either the Average or the Maximum CO2 values of the last 24 hours will be displayed (key lamp flashes).

Example CO2 average= 820ppm

Press the **-** key to select and display one of the previous days records. The following message will be displayed .
Press either the **REC MED** or the **REC MAX** key.
Either the Average or the Maximum CO2 values of the selected day will be displayed.

Example with 1 day ago

Press **+** or **-** keys to select another day of cycle then proceed as above.
Press **ALARM** to escape.

Example with 5 days ago

Note: Recordings are kept up to *90* days; Afterwards the oldest record is automatically deleted by the new one.

VIEW MAXIMUM CO2 HOURLY VALUE

Press either the **REC MAX** key for at least one second (key lamp flashes).
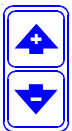The Maximum CO2 values of the last 48 hours will be displayed.

Example CO2 aver.= 2580ppm

Press the **-** key to select and display one of the previous hours records. The following message will be displayed.
Press **REC MAX** key: Maximum CO2 values of the selected hour will be displayed.

Example with 1 hour ago

Press **+** or **-** keys to select another hour then proceed as above.
Press **ALARM** to escape.

Example with 5 hours ago

Note: Recordings are kept up to *48* hours; Afterwards the oldest record is automatically deleted by the new one.

HOW TO ERASE CYCLE RECORDINGS (NEW CYCLE START-UP)

To erase memory keep **+** key for longer than 3 sec.
Before cleaning the memory a *CLEA* message will be displayed.

HOW TO DISPLAY THE DAY OF CYCLE

Press the **-** key to display the current day of cycle. (on firts day *d= 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 **REC MAX** 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 **REC MAX** to confirm.
The next system constant will then appear.
You can press **REC MAX** for at least 2 seconds to exit and return to the Run Mode.

Mess.	Valore	Significato	Note
IntE	15"	Seconds probe reading time (max 999")	
t.ALA	0"	Seconds alarm delay time	*1
Ad.Co	0%	CO2 sensor adjustment (- / + 50%)	
tYPE	=3	Sensor type	*2

1) Alarm led is blinking during all the delay alarm time.

2) 1= 0...2.000ppm (resolution= 10ppm)
   2= 0...5.000ppm (resolution= 20ppm)
   3= 0...10.000ppm (resolution= 50ppm).

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 **REC MAX** to activate relay.
You can press **REC MAX** key for at least two seconds to escape and return to the *Run Mode*.

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 **REC MAX** key and keep it pressed giving power on: *boot* message will be displayed (release now **REC MAX** key).

CO2.A =3000
COST value are shown in **COST** paragraph.