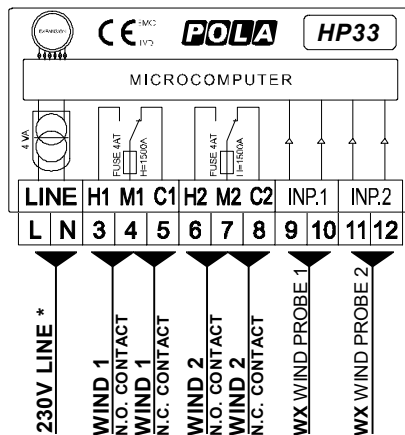


## INSTALLATION

### How to connect the wind meter

Connect the wind meter provided as shown in the diagram. For remote connections use a standard 0.5-square millimeter two-pole wire, taking great care over the connections, by insulating and sealing the joins carefully.



\*Other power voltage if you required.

**HP33 can be connected with N.2 WX wind probes in order to control the 2 sides that are in contact with the wind of the environment that it has to control.**

**It is possible to know the speed of the wind in only one direction, but with 2 different sets. To obtain this, connect WX on 9-10 terminals and connect 9-11 e 10-12 terminals.**

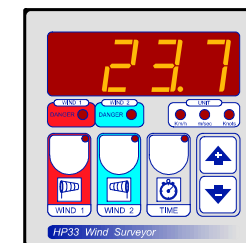
As it company policy to continually improve the products the Manufacturers reserve the right to make any modifications thereto without prior notice. They cannot be held liable for any damage due to malfunction.



# HP33

SL 3.0  
Handbook

Wind Surveyor



**The HP33 wind meter gives only an approximate indication of the wind speed. We do not recommend to use it in every application where the wind speed can be a critical factor and do not take any responsibility for any losses or injuries, costs or damages arising from wind speed.**

### MAIN SETTINGS (Run Mode)

#### WIND 1 SETTING.



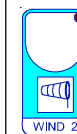
Press **WIND 1** (key lamp flashes):

This message will be displayed instead of the Set Wind Speed meter 1 (\*1).

Press + or - to modify. Press **WIND 1** to confirm.

SET.1

#### WIND 2 SETTING.



Press **WIND 2** (key lamp flashes):

This message will be displayed instead of the Set Wind Speed meter 2 (\*1).

Press + or - to modify. Press **WIND 2** to confirm.

SET.2

#### ALARM TIME SETTING.



Press **TIME** (key lamp flashes):

This message will be displayed instead of the Set wind Speed alarm time (in seconds).




Press + or - to modify. Press **WIND 1** to confirm. (\*2).

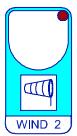


F.dur

(\*1) Unit representation of wind is selected in **COS**t, and indicated from **UNIT** lamp. Speed value displayed are just indication.

(\*2) This time represents the minimum time (in seconds) of alarm duration.


## VIEWING WIND SPEED RECORDING


  Press **WIND 1** together with + : will be  displayed followed by *Maximum Wind Speed 1*.


  Press **WIND 2** together with + : will be  displayed followed by *Maximum Wind Speed 2*.


Values are permanently stored in the memory: for deleting all values in the memory keep pushed + key for more than 3 seconds: **CLEA** message will appear on display before clearing operation.


## COS<sub>t</sub> 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 then repeatedly **TIME** 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 **TIME** to confirm.

 The next system constant will then appear.

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

Mess.	Value	Meaning	Note
tYPE	0	Wind speed representation	*1
t.rit	2"	Minimum time (in seconds) gust of wind	*2
rEAd	1"	Integration time (in seconds) wind reading	*3
n.CAL	=2	Number of impulses of WX sensor	

\*1) **HP33** can be configured in these different wind meter representation:


- 0 : **Km/h** wind speed range (max **100**).
- 1 : **m/sec** wind speed range (max **30**).
- 2 : **Knots** wind speed range (max **60**).
- 3 : **RPM** wind speed range (max **5000**).

\*2) Time (in seconds) overcome SET for entry in alarm condition.


\*3) Time (in seconds) sampling wind speed; for low value can read a quick change of wind speed on display,

## PRESET PROGRAMS

This processor is already programmed with the following (variable) settings.

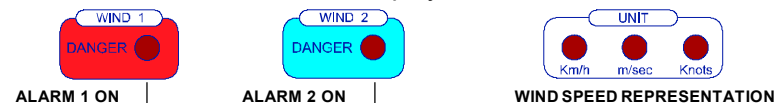
 To return to these settings at any time you may:  
Power off the processor, press **TIME** key and keep it pressed giving power on: **boot** message will be displayed (release now **TIME** key).  
**SEt.1=30.0u SEt.2=30.0u t.dur=60"** .  
The **COS<sub>t</sub>** values are shown in paragraphs 1.2

## MANUAL MODE

 In some start-up conditions may be useful to work in "manual" 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 (see table *State indication lamps* ) and push **TIME** for activating relay.  
Pushing again + for increase relay number previous relay is deactivated.  
You can press **TIME** key for a least two seconds to escape and return to the *Run Mode*.

## STATE INDICATION LAMPS

The light situated at the bottom of the display shows the state of the controller:



Lamp.	State	N° Relay	Contacts
<b>DANGER 1</b>	Zone 1 Alarm On	1	3-4-5
<b>DANGER 2</b>	Zone 2 Alarm On	1	6-7-8
<b>Km/h</b>	Km/h representation		
<b>m/sec</b>	m/sec representation		
<b>Knots</b>	Knots representation		

*Speed value displayed are just indication.*

## OPERATING DIAGRAMS

