

INSTALLATION

How to connect the sensors

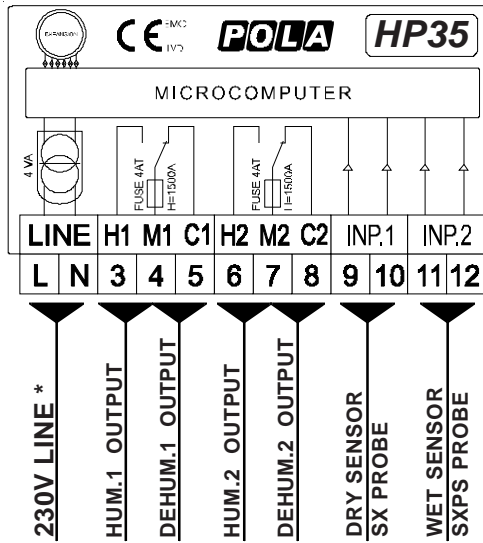
Connect the provided sensor as shown in the diagram. For remote connections use a standard 0.5-square millimeter two-pole wire (one for each sensor), taking great care over the connections, by insulating and sealing the joins carefully. -O.C.- is displayed when the temperature sensor wiring is open, -S.C.- is displayed when the temperature sensor wiring is short circuit.

How to connect the line

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

How to connect the contacts

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

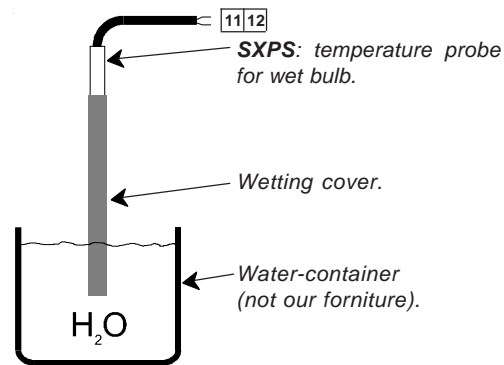
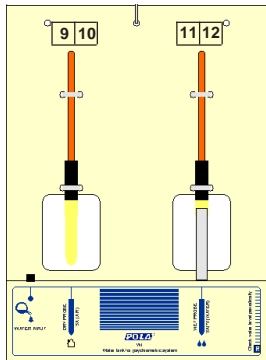


* Other power voltage if you required.

WT1 Option.

Psychrometric kit with predisposition to fixing ambient probe (SX air) and wet probe (SXPS water). Water tank with transparent side to check the water level and plug for water inlet.

In the case of our WT1 option (water tank) will not be used, deep only the terminal side of the wetting cover of SXPS probe. Put SX probe (dry bulb) in the closeness.



Check periodically the sock installed on the sensor has not been clogged by calcium carbonate scale. If so, remove it then clean or replace it.

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.



21.12.12

HP35

SL 3.0

Psychrometer hygrostat controller

Handbook



MAIN SETTINGS (Run Mode)



SET 1 HUMIDITY SETTING.

Press **SET 1** (key lamp flashes):
This message will be displayed instead of the % RH Set 1 Humidity value.
Press + or - to modify. Press **SET 1** to confirm.

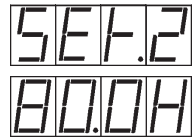


Example SET.1 = 70.0H



SET 2 HUMIDITY SETTING.

Press **SET 2** (key lamp flashes):
This message will be displayed instead of the % RH SET 2 humidity value.
Press + or - to modify. Press **SET 2** to confirm.



Example SET.2 = 80.0H

VIEWING HUMIDITY RECORDING



Press + : H. _ _ _ will be displayed followed by °Maximum Humidity Recording.



Press - : H. _ _ _ will be displayed followed by °Minimum Humidity Recording.

Values recorder are memory permanent stored: for memory clear keep pushed + keys for more than 3 seconds: **CLEA** message will be composed on display before clearing operation.

PSYCHROMETER TEMPERATURE VIEWING



DRY BULB TEMPERATURE VIEWING:

Press **SET 1** for at least one seconds:
This message will be displayed instead of the °C dry bulb temperature.



WET BULB TEMPERATURE VIEWING:

Press **SET 2** for at least one seconds:
This message will be displayed instead of the °C wet bulb temperature.



COS_t 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 **SET 2** 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 2** to confirm.

The next system constant will then appear.

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



Mess.	Value	Meaning	Note
diF.1	1.0%	%Rh SET 1 differential	*1)
diF.2	1.0%	%Rh SET 2 differential	*1)
tEnP	=1	Temperature representation (=1 °C, =2 °F)	
Ad.t1	0.0 °	° dry input temperature sensor correction (+ or -)	*2)
Ad.t2	0.0 °	° wet input temperature sensor correction (+ or -)	*3)

*1) For more details see *Operating Diagram*.

*2) You can correct the readings on the temperature sensor (+ or -).

*3) You can correct the readings on the wet bulb probe sensor (+ or -).

To calibrate the %RH reading (when using the pycrometric kit):

1. Remove the wet sock from the wet temperature probe.
2. Allow the wet temperature probe to dry for 10 mins.
3. Adjust the above setting to make the wet bulb temperature match that of the dry bulb. Check periodically the sock installed on the sensor has not been clogged by calcium carbonate scale. If you, remove it and clean or replace it.

"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 *State indication lamps*) and push **SET 2** for activating relay.

Pushing again + for increase relay number previous relay is deactivated.

You can press **SET 2** 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
HUM (1)	HUM 1 Output On	1	3-4
DEHM (1)	DEHUM 1 Output On	1	4-5
HUM (2)	HUM 2 Output On	2	6-7
DEHM (2)	DEHUM 2 Output On	2	7-8

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 2** key and keep it pressed giving power on: **boot** message will be displayed (release now **SET 2** key).

SEt.1=70.0H SEt.2=80.0H.

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

OPERATIVE DIAGRAM

