Eletrical connections XP-L4

OUTPUT 0-10V SIGNAL FANS

+10 Vcc   -0

1= POWER 220 Vac
2= POWER 220 Vac

3= Pr2 .... PROBE TEMPERATURE
4= GND- .... PROBE TEMPERATURE

4= GND- .... GROUND ANEMOMETER
5= Pr1 .... IOUT 4/20mA ANEMOMETER
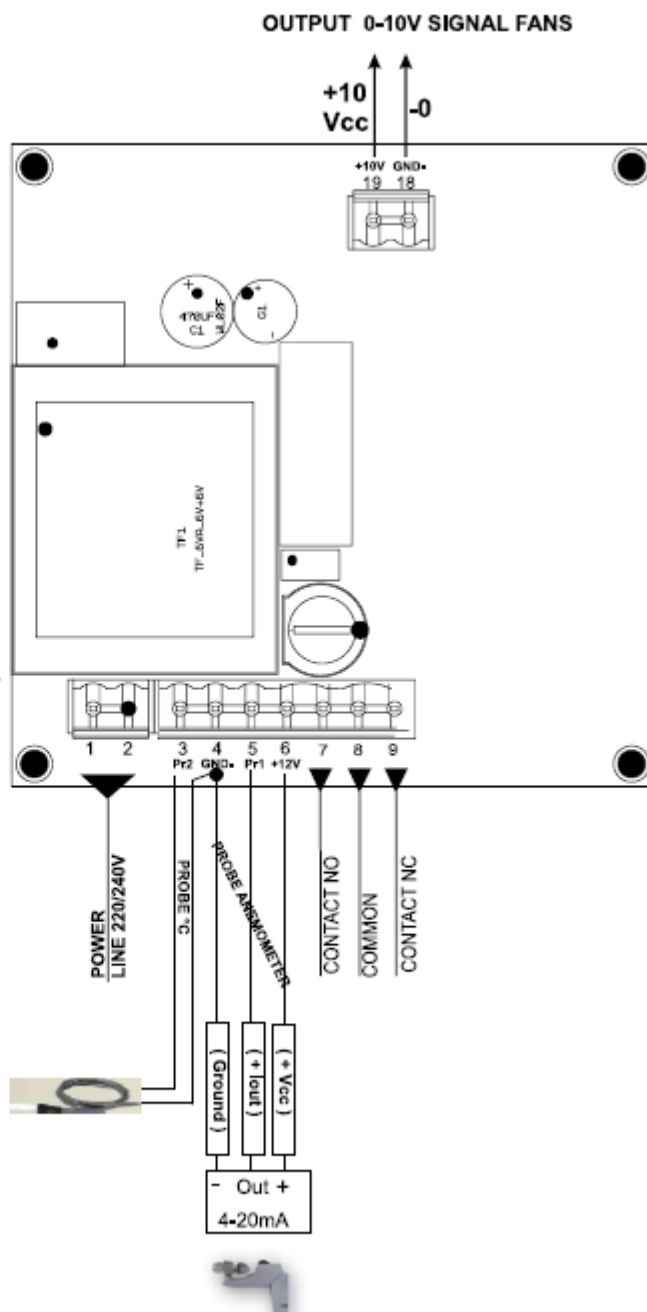6= +12V .... +Vcc ANEMOMETER

7= NO ... CONTACT NO ALLARM
8= C ... COMMMON ALLARM
9= NC ... CONTACT NC ALLARM

18= GND- .... - 0 OUTPUT SIGNAL FANS
19= +10V .... +10Vcc OUTPUT SIGNAL FANS

POWER LINE 220/240V

PROBE °C

PROBE ANEMOMETER
(Ground)
(+ Iout)
(+ Vcc)

CONTACT NO
COMMON
CONTACT NC

- Out +
4-20mA

XP-Line CONTROL BOX – CONFIGURATION PARAMETERS

The XP-Line control box allows to control the ventilation based on the wind speed (Mode A) or the temperature (Mode B), by using specific probes.

It is possible change mode every moment, following these steps:

- Shut the XP-Line power system down and then turn it on;
- Once turned it on, keep pushed **SET** button till 4 lines appear on the display;
- Stop pushing the **SET** button.

To visualize in which mode you are operating, it is sufficent shut the control box down and then turn it on again.

The parameters control can be made in two ways: automatic e manual.

The first one is suggested for the final user, because the control box sets up the fan functions in automatic and based on the data acquired, the fan speed is increased or decreased. This is the default mode.

The manual mode allows to take control manually and modify , for example, the number of RPM of the fan, independently of the microclimatic conditions. This mode is suggested only during the initial test or in maintenance conditions, in order to check out if everything is working properly. To enter in this mode, push both **ACTION** buttons for 5 sec. and then click on **ACTION** to change the fan speed.

 Briefly, the ventilation control can be made by using:

- Wind Speed (Mod. A);
- Temperature (Mod. B).

The ventilation needs to be set up and configured with costant data.

Attention: not all parameters must be changed, because many of them are default ones.

SETTINGS

Mode A – Dominant parameter Wind Speed

Settings concern setting up the wind speed in which fans go down to the minimum speed or they stop. To do this push the **SET** button and click on **INCR/DECR** to regulate the wind speed.

Clicking again **SET**, it is possible to insert also the temperature in which the machine stops. (only if the control box is equipped also with the thermometer).
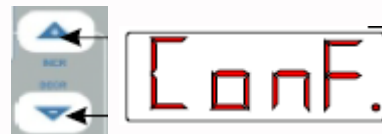
Mode B – Dominant parameter Temperature

Settings concern setting up the temperature in which fans start to move. To do this push the **SET** button and click on **INCR/DECR** to regulate the temperature.

Clicking again **SET**, it is possible to insert also the wind speed in which the machine stops. (only if the control box is equipped also with the anemometer).

CONFIGURATION

The configuration concerns the data for the thermometer and the anemometer, so their regulation does not depend on which mode is used.

To do this push both **INCR/DECR** buttons for 5 sec, till when on the display appears **CONF**. Now you are in the programmation so just click **SET** to scroll all parameters.

Press **INCR/DECR** to change value to the parameters. Parameters for the user are:

- **SP.Lo:** % of minimum speed (generally 10%, so fans does not work under the 10% of the maximum speed)
- **SP.Hi**: % of maximum speed (it can be 100% or less and it indicates that at full speed, fans go to the 100% of the maximum speed of the machine)
- **P.b:** is the proportional band, the °C/°F range in which the fan goes from the minimum speed to the maximum one; for the industrial sector generally is set up on 20°C.
  N.B: in mode A, the proportional band is already set up when the wind speed is chosen (see SETTINGS); in fact setting for example 8 m/s, blades have the max RPM at 0 m/s and min ones at 8 m/s.
- **AnEM:** turn on/turn off wind block when the wind speed is the same or upper then the value set up with the **SET** button; put **0** to turn *AnEM* off and **1** to turn it on. In the industrial sector generally is 0.

Push **SET** to quit.

OTHER FUNCTIONS AND RESET

With the XP-Line other functions are available. In particular:

- **Reading Record Max/Min:** pushing the **INCR** button ▲◀ is possible reading the record of the maximum temperature (Mod B) or wind speed (Mod A) recorded.
  Pushind the **DECR** button ▼◀ is possible reading the minimum record.
  Keeping one of the 2 button pushed for 5 sec, all records are cancelled.
- **Reading % output:** pushing the **ACTION** button is possible seeing the % of the fans speed in that moment.

If it is necessary doing a reset with the initial default values of the control box, when the box is turn on, keep pushed the **INCR** button till when on the dispaly appears **BOOT**. Then stop pushing **INCR** and wait for the reset of the electronic machine.