



fig.1: External aspect and electrical connections

## PRODUCT COMPOSITION

- Boxed temperature controller 3 module
- Cover Plate
- Inbox box
- Temperature Probe
- Accessories
- Instructions

## FUNCTIONING

### ❖ ON/OFF:

The On/Off of the controller is pushing the button **P1**

The state OFF is signaled through the led **L1**

### ❖ FUNCTIONING Modality

- **MANUAL:** advice signal **MAN**

The fan is at the set speed independently by the Probe's temperature

- **AUTOMATIC:** advice signal **AUT**

The Fan starts at the set up speed when the probe's temperature is higher than the setted Thermostat **SET**

- **PROPORTIONAL:** advice signal **PROP**

The fan increases automatically its speed according to the probe's temperature in the range **SET ÷ SET+DEL**

### ❖ STANDBY Function: if parameter **Stb = 1**

If the device is OFF,

if the probe's temperature is higher than the value of thermostat **TSI**

- The device goes in ON automatically

### ❖ SAFETY Function: if the parameter **SIC = 1**

If the probe's temperature is higher than value of thermostat **TSI**

And the fan is OFF in MANUAL Modality

- The device goes automatically in the Proportional Modality waiting 10 seconds.

### ❖ SAFETY FAN Function: if the parameter **SAF = 1**

If the probe's temperature is higher than value of thermostat **TSA**

- The Fan is OFF

### ❖ ALARM Function:

If probe's temperature is higher than the value of thermostat **TAL** and the parameter **Enb = 1**

- The acoustic signal is activated
- This signaling can be deactivated for 5 minutes by pushing a button
- After 5 minutes, if there's again the condition of alarm, it is activated again.

## MAIN Menu:

### ❖ FUNCTIONING Modality Selection

- Press **P4** key to see the current modality: it's signaled by the display and the led
- Pressing again the **P4** key, you can select cyclically one of three functioning modality signaled on the display and by the led
- The setting is automatically memorized after 4 seconds
- The **L5** shows the status of the Fan

### ❖ Functioning Speed Selection

- Pressing **P2** or **P3** keys the setting of the current fan speed is visualized or modified  
**P0**= Off (only manual); **P1** = Minimum Speed; **P10**= Maximum Speed
- This function is not available in the PROPORTIONAL Modality
- In the AUTOMATIC Modality the speeds that can be set are **P1 ÷ P10**



## FAILURE OR ALARM SIGNALS

The controller can signal the failure of the probe.

Blinking message for the failure signal:

- **Lo:** indicates a low temperature (temperature under 0°C): **Probe Open or Disconnected**
- **Hi:** indicates a high temperature (temperature over 180°C): **Probe in Short Circuit**

### ⚠ ATTENTION

- Avoid join together the probe's cables with power's cables.
- Provide the system's feeding with a bipolar switch according to the actual rules and with opening distance of the contacts of at least 3 mm for each pole.
- Installation and the electrical connection of the device have to be made by experienced personal and with appropriate equipping.
- Before the connection be aware that the electrical feeding is not connected.

### SECONDARY Menu:

It allows to modify the functioning parameters of the controller.

- To enter the MENU push together buttons **P2** and **P3** for about 5 seconds.
- To scroll the code list use the button **P2** or **P3**
- To show the parameter's value push the button **P4**
- To modify the parameter's value push the buttons **P2** or **P3**
- To visualize again the code list and memorize push the button **P4**
- To exit and memorize wait for about 10 seconds.

The parameters are described in the following table

MAIN Menu Parameters	Code	Min	Default	Max
Functioning Modality <b>Man / Aut / PrP</b>			<b>Man</b>	
Fan Regulation Speed		00	<b>XX</b>	10
SECONDARY Menu Parameters	Code	Min	Default	Max
Temperature Fan Activation	<b>SET</b>	40°	<b>45°</b>	99°
Temperature Fan Activation Hysteresis	<b>iSt</b>	1°	<b>2°</b>	35°
ALARM Temperature Activation	<b>TAL</b>	100°	<b>120°</b>	180°
SAFETY Temperature Activation	<b>TSI</b>	80°	<b>100°</b>	140°
SAFETY FAN Temperature Activation	<b>TSA</b>	100°	<b>135°</b>	180°
SAFETY Function Enable	<b>SIC</b>	0 [off]	<b>1 [on]</b>	1 [on]
SAFETY FAN Function Enable	<b>SAF</b>	0 [off]	<b>0 [off]</b>	1 [on]
STANDBY Function Enable	<b>Stb</b>	0 [off]	<b>1 [on]</b>	1 [on]
BUZZER Function Enable	<b>Enb</b>	0 [off]	<b>1 [on]</b>	1 [on]
➤ Fan Speed <b>P01</b>	<b>U01</b>	00	<b>16</b>	99
➤ Fan Speed <b>P09</b>	<b>U09</b>	00	<b>70</b>	100
➤ Fan Speed <b>P10</b>	<b>U10</b>	00	<b>100</b>	100
Temperature Range of Regulation for Proportional Modality	<b>DEL</b>	20°	<b>20°</b>	100°

Table 1 – Menu Parameters

#### ➤ **P01 / P09 / P10 Speed REGULATION (parameters U01 / U09 / U10)**

- Enter in SECONDARY Menu
- Select the parameter to verify/modify : the fan works automatically at the set speed
- Modify the value until the desired value : in this way it is possible to control the speed directly.
- Memorize by pushing button **P4**
- Eventually repeat the operation for the other speeds/parameters
- To exit, wait about 10 seconds.

Supply:	230 Vac ±10%~ 50HZ: <b>EMI filter on side</b>	
Protection:	Internal Fuse	
Temperature Probe:	Working Temperature: -50°C / 250 °C Range of Measure: 0 – 180 °C: ± 1°C	
Output:	FAN: 230 Vac I <sub>max</sub> : 0,8A/1,5A <i>high power version</i>	
Dimensions:	Inbox Controller 120 x 80 x 50 [mm]	
Applied Rules:	EN 60730-1 50081-1 EN 60730-1 A1 50081-2	

Table 2 – Technical characteristics