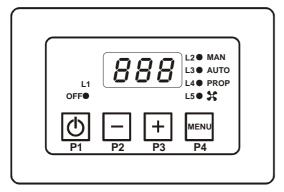
FC 810_v01 User Manual





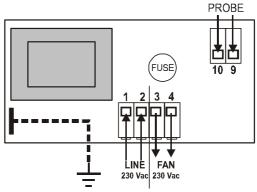


fig.1: External aspect and electrical connections

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

\Rightarrow **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.

\Rightarrow **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 $P1 \div P10$

B <u>FAILURE OR ALARM SIGNALS</u>

The controller can signal the failure of the probe.

Blinking message for the failure signal:

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

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 Man / Aut / PrP			Man		
Fan Regulation Speed		00	XX	10	
SECONDARY Menu Parameters	Code	Min	Default	Max	
Temperature Fan Activation	SET	40°	45°	99°	
Temperature Fan Activation Hysteresis	iSt	1°	2 °	35°	
ALARM Temperature Activation	TAL	100°	120°	180°	
SAFETY Temperature Activation	TSI	80°	100°	140°	
SAFETY FAN Temperature Activation	TSA	100°	135°	180°	
SAFETY Function Enable	SIC	0 [off]	1 [on]	1 [on]	
SAFETY FAN Function Enable	SAF	0 [off]	0 [off]	1 [on]	
STANDBY Function Enable	Stb	0 [off]	1 [on]	1 [on]	
BUZZER Function Enable	Enb	0 [off]	1 [on]	1 [on]	
Fan Speed P01	U01	00	16	99	
Fan Speed P09	U09	00	70	100	
Fan Speed P10	U10	00	100	100	
Temperature Range of Regulation for Proportional Modality	DEL	20°	20 °	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: EMI filter on side		TiEmme
Protection:	Internal Fuse	TiEmme elettronica
Temperature Probe:	Working Temperature: -50 °C / 250 °C Range of Measure: $0 - 180$ °C: ± 1 °C	
Temperature Flobe.	Range of Measure: 0 – 180 ℃: ±1℃	
Output:	FAN: 230 Vac Imax: 0,8A/1,5A high power version	
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**