

Air changes regulator for batteries room, container DIN 22.5

TC-B

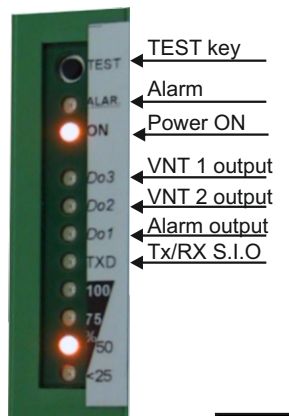
TC-B is a controller that manages the 2 fans to make air changes in a battery room.
TC-B has 1 input for NTC probe, 3 PNP outputs, 4 NPN isolated digital, 1 inputs serial configuration.
TC-B can be configured from a PC, you can set the times, set points and alarms.
TC-B can be equipped with isolated RS-485 for communication with a supervisor with Modbus RTU protocol.



FUNCTIONING

TC-B command in service/ reserves mode 2 fans with periodic rotation to ensure equal-usury. 2 inputs acquires the states of fan running, in case of malfunction of the service fan is controlled the reserve. The fan operation is in pause / work. When the optional temperature probe is present is also possible to command the fans according to the set temperature programmed. Thanks to a digital input, you can disable the operation of the TC-B.

TC-2 diagnostics lock status of the fans, the out of range of the probe, probe open or short circuit. The alarm status is displayed with a flashing LED and activation alarm digital output Do1.



FRON PANEL

The correct supply of TC-B is signaled by the LED ON.
The Alarm LED is red, it indicates the alarm caused by:
 A) temperature exceeding the set point alarm set
 B) sensor out of range
 C) block of at least one fan

SIGNALS

The **Do1 Led** indicates the alarm activation. The **TX / RX led** indicates that the device is communicating via the serial port
 The **Do2 Led** indicates the command of fan 1.
 The **Do3 Led** indicates the command of fan 2 .

Analog input [NTC 10K]	Digital inputs [NPN]	Digitali Output [PNP]
Ambient Temperature	Fun 1 is running Fun 2 is running Disable control	Comand Fun 1 Comand Fun 2 Alarm

ELECTRICAL CHARACTERISTICS

Power supply: 48VDC (36÷70Vdc) Ripple 10% max; Power absorption: 1.2 W (Max); isolation 1KVdc
 Probe input: NTC 10Kohm range from -20 to 80°C, resolution 0.1° accuracy +/- 0.4°C
 Digital input: isolated, 32 ÷ 60Vdc NPN excitement; I_{max} 12 mA
 Digital outputs: isolated PNP, I_{max} 0.2A
 Operating Temperature: from 0°C to 60°C
 Storage temperature: from -20°C to 80°C
 Operating RH: 95%Rh@60°C, not condensing, 24 hours,
 Storage: 95% Rh @60°C, not condensing, 96 hours

MECHANICAL CHARACTERISTICS

MOUNTING: internal panel din/omega rail
 DIMENSIONS: 102xL 22,5 D.110 mm
 WEIGHT: about 80 g
 CONNECTIONS: disconnect terminals cable section: 0,25÷0,5 mmq
 FLAMMABILITY CLASS: UL 94:V0
 PROTECTION DEGREE accessible parts: IP 30; connections: IP 10
 VIBRATION: IEC68 part 2-6; IEC68 part 2-27

ORDER CODES

Code	Description
802E0080	TC-B controller for managing 2 fans for air circulation in battery rooms, power supply. 48 Vdc
802E0081	TC-B controller for managing 2 fans for air circulation in battery rooms, with insulation RS-485 power supply. 48 Vdc
802E0082	TC-B controller for managing 2 fans for air circulation in battery rooms, power supply. 24 Vdc
802E0083	TC-B controller for managing 2 fans for air circulation in battery rooms, with insulation RS-485 power supply. 24 Vdc
42000060	Probe Ntc 10K for ambient temperature cable lenght Lg. 2m
410000v0	Differential pressure switch on-off 0,5mB÷5,0mB
TUTLTCS0	Programming Kit for TC-B PC, O.S. Win 10 complete with extension cables and USB RS-232 converter
5000003G	Fuse kit



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