



# LT

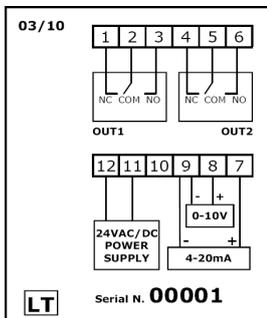
## Two threshold control unit for current or voltage input



### Technical data

Power supply:	24VAC/DC (LT-A)
Power consumption:	2VA / 1,8W max
Input signal:	4-20mA or 0-10V
Input impedance:	Max 250Ω (mA) or Min 10KΩ (V)
Output:	2 SPDT relays
Hysteresis:	2% non adjustable
Contact rating:	7A @ 250 VAC (resistive load) 3A @ 230 VAC (inductive load)
Default relay mode:	normally energized
Programming:	2 push buttons
Visual signaling:	Green LED → Power supply Red LED → Threshold
Protection:	IP20
Storage temperature:	from -30 to +80°C
Working temperature:	from -20 to +60°C
Relative humidity:	from 0 to 85%, no condensate
Installation:	35 mm DIN rail
Dimensions:	90(H) x 35(L) x 60(P) mm
Electrical connection:	Removable terminal board

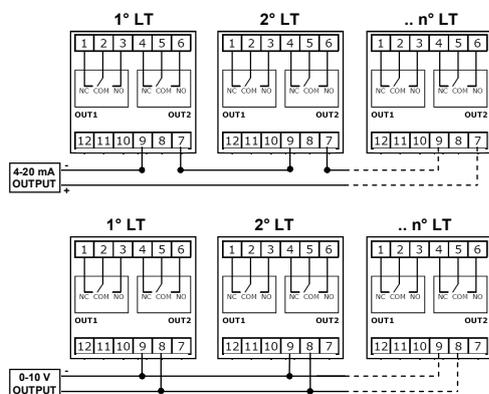
### Electrical connections



LT control unit can work with 4-20mA or 0-10Vdc input, as it recognize the input electrical connection.

It is recommended to use a connection cable of at least 0,5mmq section and a maximum length of 250mt. Connection cables must have separate run from power cables.

If your application need more than 2 threshold, it is possible to create a series (current input) or parallel (voltage input) connection, following these schemas:



It is recommended to check the maximum load, if used with current input, or the minimum load, if used with voltage input supported by the output of the bound transmitter.

### Relay switching mode

Output relays can work in two different switching modes: normally energized (default mode, when signal overtake threshold relay is set off) or de-energized (when signal overtake threshold relay is set on). To change switching mode remove the front cover of the transmitter.

- 1) Press **P1** button for at least 3 seconds, until **GREEN** led start blinking, and **RED** leds blink alternatively.
- 2) Press **P1** for normally energized relays or press **P2** for normally de-energized relays.
- 3) Wait until both **RED** leds are blinking at the same time, then press and release both **P1** and **P2** to store relays switching mode.

### General

LT is a control unit with 2 adjustable threshold and 4-20mA or 0-10Vdc input. It can be bound together with any instruments that has an analog current/voltage output as pressure transmitter, PT100 converter, capacitive probe amplifier and level transmitter.

The set point of the two threshold are independent and can be changed using the onboard programming buttons. When the input signal reach the set point, relay and red LED change their state.

### Threshold calibration

In order to access the 2 programming buttons, remove the front cover of the transmitter and connect to input pins the analogue signal 4-20mA or 0-10Vdc.

- 1) Press **P2** button for at least 3 seconds, until **GREEN** led start blinking, and **RED** leds blink alternatively.
- 2) Set input signal at the desired level, then press and release **P2** for first threshold (**OUT1**) or **P1** for second threshold (**OUT2**).
- 3) Repeat step 2) if you need to acquire the other threshold. Please note that now is blinking the **RED** led correspond ing to the threshold that is not acquired yet.
- 4) To store threshold(s) acquired press and release both **P1** and **P2**.

### Warranty

The warranty is valid for 12 months from purchase, and expires if instrument is improperly used or not correctly installed on system.



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