

## TECNOLOGIC TLK38-24V

**Temperature Controller** 

UNIT CODE	DESCRIPTION	
TLK38-24V	24V Dual Set-point Temperature Controller	
July, 2017 TLK38-S Replaces TLK38 See below	with 2 Relay Outputs	

SPECIFICATIONS		
Input Power Required	Power Consumption	Control
24 VAC/VDC (50/60 Hz)	3 VA	On/Off, PID, AUTO-TUNING

Power Supply: 24 VAC/VDC ± 10% F: 50/60 Hz

Power Consumption: 3 VA

Control: ON/OFF with neutral zone, PID single action or double action (Heat/Cool) with two degrees of freedom algorithm, AUTO-TUNING FAST function, SELF-TUNING function FUZZY OVERSHOOT CONTROL automatic calculation, Soft start, Bumpless ramp for set point change, Up to 3 configurable alarms + loop break alarm.

Input(s): NTC Thermistor 103AT-2 (10 k $\Omega$  at 25°C). Also works with PTC KTY 81-121 (990  $\Omega$  at 25°C) thermistor, thermocouple temperature probes (J,K,S and TECNOLOGIC IRS Infrared sensors), mV signals (0..50/60 mV, 12..60 mV) Output(s) Out 1: Relay SPDT (8 A-AC1)

Out 2: Relay SPST (8A- AC1)

Case: Self-extinguishing plastic, UL 94 VO

Dimensions: 1/16th DIN, Front 35x75 mm, Depth 64 mm

Mounting: Flush in panel in 29x71 mm hole Connections: 2.5 mm<sup>2</sup> screw terminal block

Degree of protection: IP 65, mounted on the panel with seal

Measurement Range: NTC sensor -  $50\sim110$  °C (- $58\sim230$  °F) See User Manual for other sensor ranges. Display Scale - $99\sim999$  max.

Display resolution: According to the probe used. 1/0. 1/5/0.5

Overall Accuracy: ± 0.5% fs

Compliance: ECC directive EMC 2004/108/CE (EN 61326),

ECC directive LV 2006/95/CE (EN 61010-1)

Approvals: C-UL (file n. E206847)

TLK38-S Web Page & On-line Ordering



TLK 38 is a "single loop" digital microprocessor-based controller, with ON/OFF, Neutral Zone ON/OFF, PID single action, PID dual action (direct and reverse) control and with AUTO-TUNING FAST function, SELF-TUNING function and automatic calculation of the FUZZY OVERSHOOT CONTROL parameter for PID control. The process value is visualized on 4 red displays, while the output status is indicated by 2 LED displays. The instrument is equipped with a 3 LED programmable shift indexes. The instrument provides for the storage of 4 Set-Points and has two (2) relay type outputs.

**July, 2017** The TLK38-S (Simplified) Series was introduced, and the original TLK38 Series was discontinued (No Longer Available).

The TLK38-S is a simplified version of the original TLK38. The new "S" version is identical in size, and functionally is similar to the original in many respects, including PID control. However, the list of parameters has been significantly reduced. While this makes the "S" model far easier to program (there's only one 'list' of parameters to scroll through), buyers seeking a replacement for an original TLK38 should check the TLK38-S User Manual