

PELTIER CELLS CONTROLLER

- PID CONTROL
- UP TO 2 OUTPUTS
- RS485



FEATURES

DISPLAY	TLK33
Single	4 red digit, h 12 mm
INPUTS	Thermocouples (0... 1000°C/32... 1832°F), K (0... 1370°C/32... 2498°F), S,R (0... 1760°C/32... 3200°F), T (0... 400°C/32... 752°F) and Infrared sensors J or K type + Thermoresistances Pt 100 3 wires (-200.. 850°C/-328... 1562°F) Thermocouples J (0... 1000°C/32... 1832°F), K (0... 1370°C/32... 2498°F), S,R (0... 1760°C/32... 3200°F), T (0... 400°C/32... 752°F) and Infrared sensors J or K type + Thermistors PTC KTY 81-121 (990Ω at 25°C) (-55... 150°C/-67... 302°F) and Thermistors NTC 103AT-2 (10kΩ at 25°C) (-50... 110°C/-58... 230°F) Linear signals 0/4... 20mA Linear signals 0/10... 50mV, 0/12... 60mV, 0/1... 5V, 0/2... 10V 2 digital inputs for free voltage contacts ± 0,5% span ±1 digit, Tc S :±1% span ±1 digit
Digital inputs	
Accuracy	
OUTPUTS	
Up to 2, in voltage to direct drive Peltier cells	12... 24 Vdc (equal to power supply) to direct drive Peltier cells max. 7A; up to 2 alarm outputs in voltage for SSR driving (10mA/ 10Vdc)
Auxiliary supply	12 Vdc / 20 mA max.
FUNCTIONAL	
Control	PID dual action, Autotuning FAST, Selftuning algorithms, Fuzzy overshoot control
Set Point	4 Set Points programmable
Serial communication	RS485 with Modbus RTU protocol
Baud rate	1200... 38400 baud, programmable
GENERAL	
Power supply	12... 24 Vdc ±10%
Power consumption	4 VA approx.
Dimensions / Weight	78 x 35 mm – depth 75.5 mm / 130 g approx.
Connections	Screw terminal block 2.5 mm ²
Mounting	Flush in panel in 71 x 29 mm hole
Front protection degree	IP65, mounted in panel with gasket
Operating / storage temperature	0... 50°C (32... 122°F) / -30... 70°C (-22... 158°F)
Operating humidity	20... 85 RH% without condensation
Conformity	Directive EMC 2004/108/CE (EN 61326-1), Directive BT 2006/95/CE (EN 61010-1)

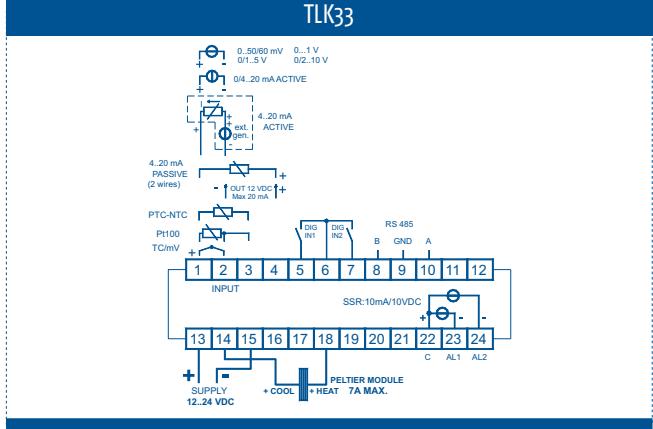
HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

TLK33	CODE
POWER SUPPLY	
12... 24 Vdc	G
INPUT	
PT100 + TC (J,K,S,IRS), mV	D
PTC,NTC,mV + TC (J,K,S,IRS)	E
0/4... 20mA	I
0/1... 5V, 0/2... 10V	V
CONTROL OOUTPUTS (2 FOR SSR)	
12... 24 Vdc for Peltier cells (7A max)	O
OUT AL1	
Vdc for SSR driving	0
Not available	-
OUT AL2	
Vdc for SSR driving	0
Not available	-
SERIAL COMMUNICATION	
RS485 + 2 digital inputs	S
Not available	-
DIGITAL INPUT	
Available	I
Not available	-

TLK33 : When the RS485 is required, 2 digital inputs are always on board too.

CONNECTIONS



DIMENSIONS

