

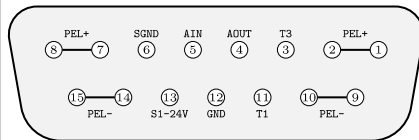
Tabletop Peltier Controller with Thermocouple k-type Support

Type: ps11-pa12v48-t8539-v1-thcpl-589



- TEC: 0..12A, 0..48V
- Vin: 100~240VAC, 50/60Hz
- The controller has 2 universal temp. sensor inputs for NTC, PT100, PT1000 and others as well as 1-thermocouple K-Type input
- These sensors can freely be related to the TEC-stage
- The analog input maps the applied voltage 0..10V to the temperature setpoint TT of the control loop in the range of LTEL...LTEU
- The analog output maps the actual temperature TA in the range of LTEL...LTLU to a voltage of 0..10V
- With the LTXAR command the Analog Temperature Mapping can be activated and it's deactivated by LTXAS
- External Fan Support can. be configured freely between 1..24V max. 800mA
- upper and lower temperature limits can be set LTL...LTLU as well as current limits

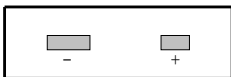
Peltier Connector



SubD15-female

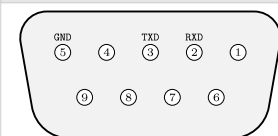
PIN.No	Abbr.	Function
1,2,7,8	PEL+	Peltier element (+)
3	T2	2. Temp. Sensor, vs. GND
4	AOUT	Analog Output 0..10V (Actual Temperature)
5	AIN	Analog Input 0..10V (Temperature Target)
6	SGND	Supply Ground
9,10,14,15	PEL-	Peltier element (-)
11	T1	1. Temp. Sensor, vs. GND
12	GND	Common Ground - for Temp. Sensors
13	S1-24V	Supply 1..24V, max. 800mA (vs. SGND) supports fan etc.
	SCR	Common Screen

T3 Thermocouple connector Type-K



NKU 1200 O from Greisinger (+NiCr -NiAl)

RS232 Connector



SubD-9 female

Standard RS232-Connector
(No Null-Modem Cable !)
9600-Baud-8N1

PIN.No	Abbr.
2	RXD
3	TXD
5	GND

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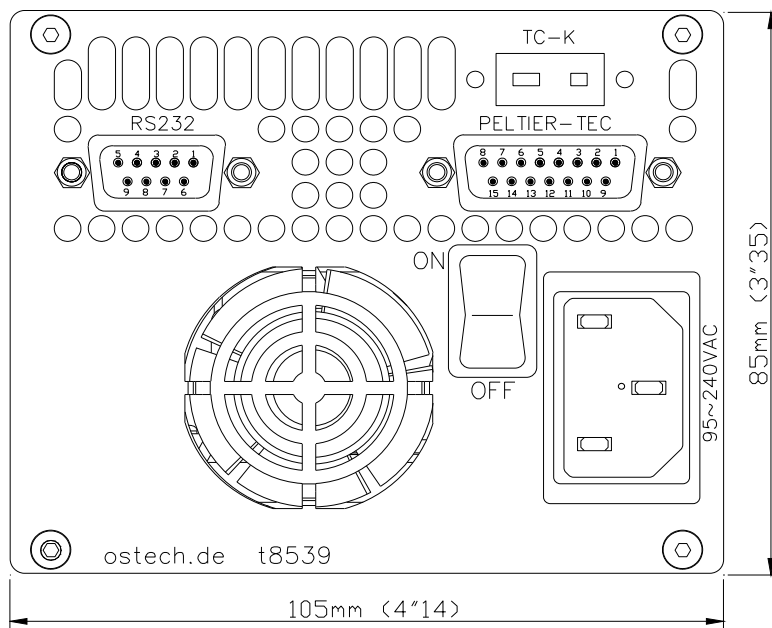


fig: ps11-t8538-rear length 200mm - oem-version length 160mm

Revision overview:

2017.04.07: "v1" - software version 2031 with extended Sensor interface

References:

<http://www.ostech.de/en/products/tec-controllers/ps11-t85>
<http://www.ostech.de/en/downloads/manuals/ds-en.pdf>
<http://www.ostech.de/en/downloads/labview>

Accessories

- kab-lpa08-16pol-subd15m-oe-1.5m-39
cable 16x0.35qmm SUBD15-Gold-6,5A/Pin to open end length 1m5
- acc-converter-usb-to-rs232-1m5-iso-417
RS232 to USB converter optical isolated with FTDI-Chip cable 1.5m