

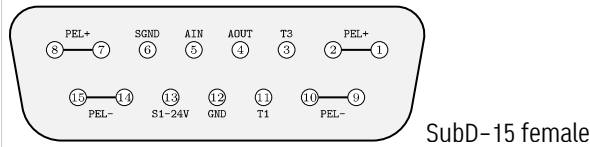
Tabletop Peltier Controller with Thermocouple k-type Support

Type: ps11-pa08v24-t8539-v2-thcpl-682



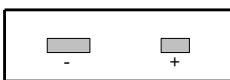
- TEC max. : 8A, 24V
- Vin: 100~240VAC, 50/60Hz
- The controller has 2 universal Temp. Sensor Inputs and 1-Thermocouple K-Type Input
- These Sensors can freely be related to the TEC stages
- The Analog Input maps the applied voltage in a range of 0..10V to a temperature range LTLL..LTLU and sets the target temperature value TT of the control loop (LTEL is the laser temp. lower and LTEU is the upper range limit)
- The Analog Output maps the range LTEL..LTEU to 0..10V and gives the TA actual temperature back also mapped between the LTEL and LTLU edges
- 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

Peltier Connector



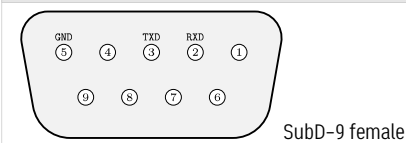
PIN.No	Abbr.	Function
1,2,7,8	PEL+	Peltier element (+)
3	T3	3. Temp. Sensor, vs. GND
4	AOUT	Analog Output 0..10V (Actual Temperature)
5	AIN	Analog Input 0..10V (Temperature Target)
6	SGND	Supply Ground
9,10,14,15	PEL-	Peltier element (-)
11	T1	1. Temp. Sensor, vs. GND
12	GND	Common Ground - for Temp. Sensors
13	S1-24V	Supply 1..24V, max. 800mA (vs. SGND) supports fan etc.
	SCR	Common Screen

Thermocouple connector Type-K



NKU 1200 O from Greisinger (+NiCr -NiAl)

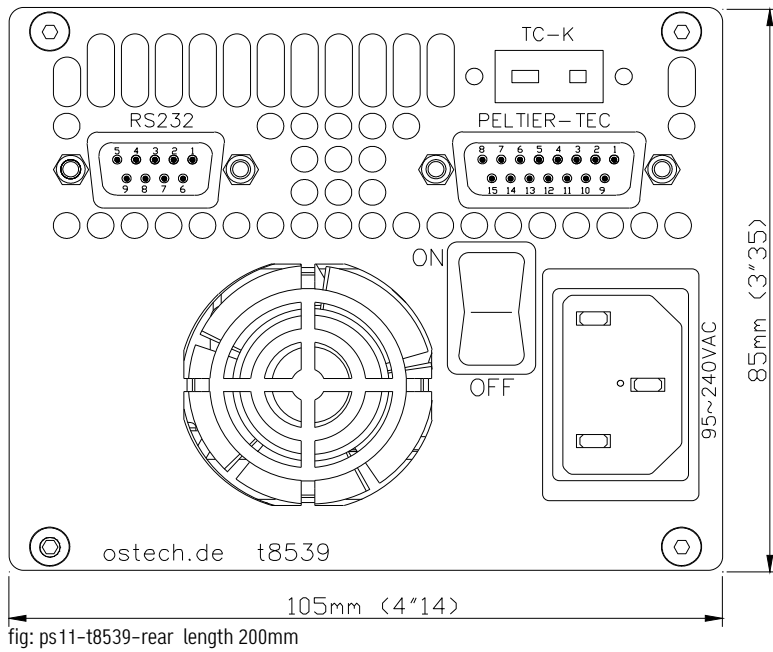
RS232 Connector



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

PIN.No	Abbr.
2	RXD
3	TXD
5	GND

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Revision overview:

2017.04.07: "v1" - software version 2031 with extended Sensor interface
 2018.08.09: "v2" - TEC max. increased to 8A 24V

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