

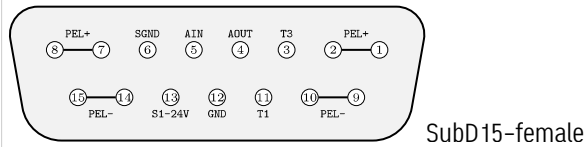
Tabletop Peltier Controller with Thermocouple k-type Support

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



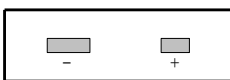
- TEC max. : 12A, 48V
- Vin: 100~240VAC, 50/60Hz
- The controller has 2 universal Temp. Sensor Inputs and 1-Thermocouple K-Type Input
- These Sensors can freely be related to the TEC stages
- The Analog Input maps the applied voltage in a range of 0..10V to a temperature range LTLL..LTLU and sets the 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



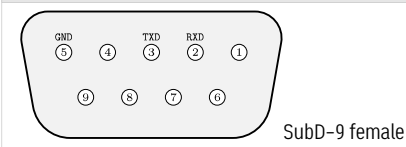
| PIN.No | Abbr. | Function |
|------------|--------|--|
| 1,2,7,8 | PEL+ | Peltier element (+) |
| 3 | T3 | 3. Temp. Sensor, vs. GND |
| 4 | AOUT | Analog Output 0..10V (Actual Temperature) |
| 5 | AIN | Analog Input 0..10V (Temperature Target) |
| 6 | SGND | Supply Ground |
| 9,10,14,15 | PEL- | Peltier 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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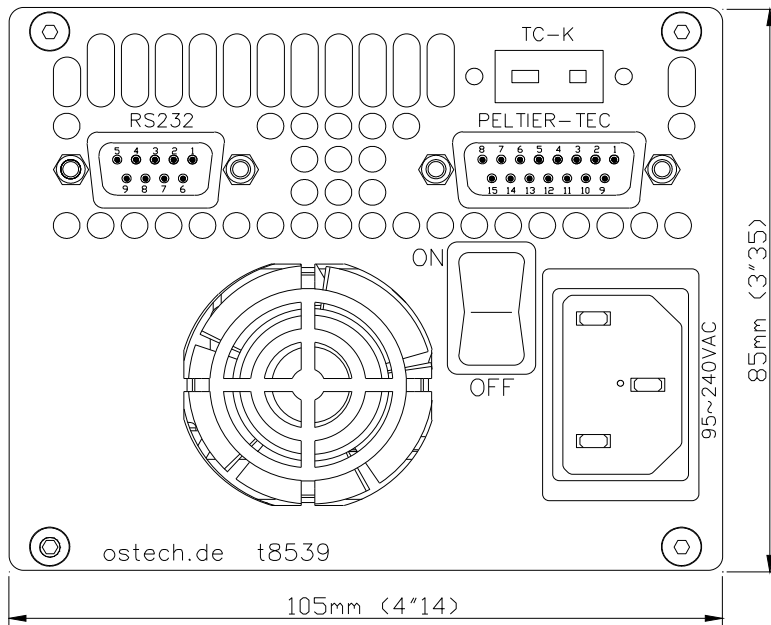


fig: ps11-t8538-rear length 200mm - oem-version length 160mm

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