

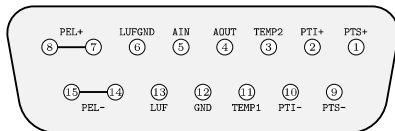
Tabletop Peltier Controller with 4-wire pt100 support

Type: ps11-pa10v18-t8545-v1-pt100-20



- TEC max. : 10A, 18V
- Vin: 100~240VAC, 50/60Hz
- The controller has 4 universal Temp. Sensor Inputs, 2 of these inputs can be used with 4 wire option for PT100 f.e., additional it has 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 LTL..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

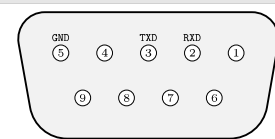


SubD-15, female

IN.No	Abbr.	Function
1	PTS+	3. Temp PT100x Supply + 4-wire option ¹⁾
2	PTI+	3. Temp PT100x Input + 4-wire option ¹⁾
3	TEMP2	2. Universal Temp. Sensor Input vs. GND
4	AOUT	Analog Output 0..10V (Actual Temperature)
5	AIN	Analog Input 0..10V (Temperature Target)
6	LUF GND	Ground for Fan Supply
7;8	PEL+	Peltier element (+)
9	PTS-	3. Temp PT100x Supply - 4-wire option ¹⁾
10	PTI-	3. Temp PT100x Input - 4-wire option ¹⁾
11	TEMP1	1. Universal Temp. Sensor Input vs. GND
12	GND	Common Ground - N.C. To Screen
13	LUF	1..24V Supply, max. 500mA supports Fan and Other Loads
14;15	PEL-	Peltier element (-)
	SCR	Common Screen

¹⁾ If you use PT100 with 3 wires than connect PTI- and PTS- together and in case you use PT100 with 2 wires than connect also PTI+ and PTS+.

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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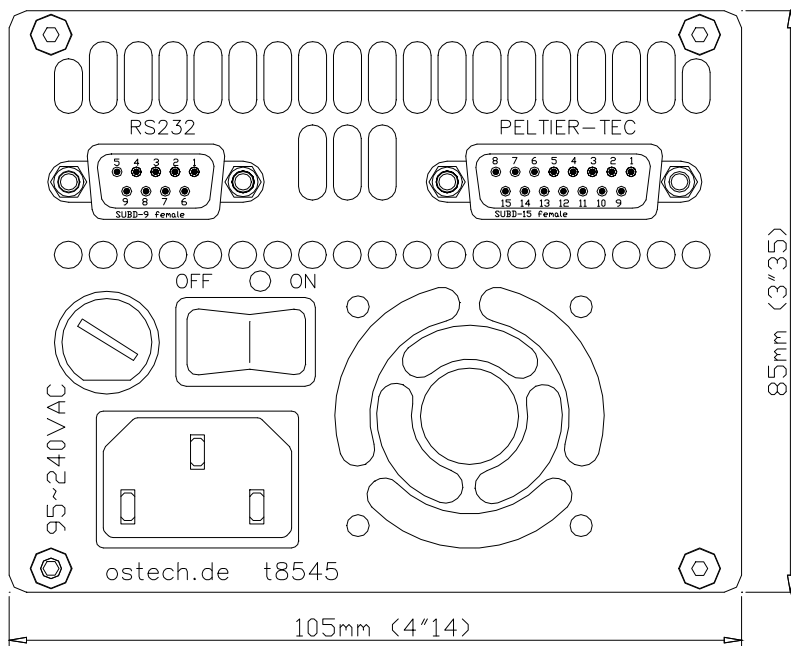


fig: ps11-t8536-rear length 200mm

Revision overview:

2016-03-11: "v1" - Interlock removed (t8545) and changed to SoftwareVersion 2031

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