

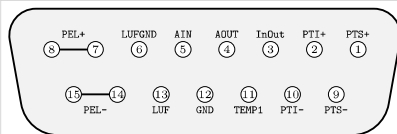
# Tabletop Peltier Controller with 4-wire pt100 support

Type: ps11-pa08v22-t8545-v5-346



- TEC max. : 8A, 22V
- Vin: 100~240VAC, 50/60Hz
- The controller has 2 universal Temp. Sensor Inputs, 1 of them can be used with 4 wire option for PT100, these 2 Sensors can freely be related to the TEC stage
- 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

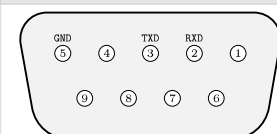


SubD-15, female

IN.No	Abbr.	Function
1	PTS+	2. Universal Temp. Sensor Supply (+) <sup>1)</sup>
2	PTI+	2. Universal Temp. Sensor Input (+) <sup>1)</sup>
3	InOut	optional (e.g. input-TEC-ON-OFF or output TEMP-OK)
4	AOUT	Analog Output 0..10V (Actual Temperature)
5	AIN	Analog Input 0..10V (Temperature Target)
6	LUFGND	Ground for Fan Supply
7;8	PEL+	Peltier element (+)
9	PTS-	2. Universal Temp. Sensor Supply (-) <sup>1)</sup>
10	PTI-	2. Universal Temp. Sensor Input (-) <sup>1)</sup>
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 (-)

<sup>1)</sup> If you use PT100 4-wire option

## RS232 Connector

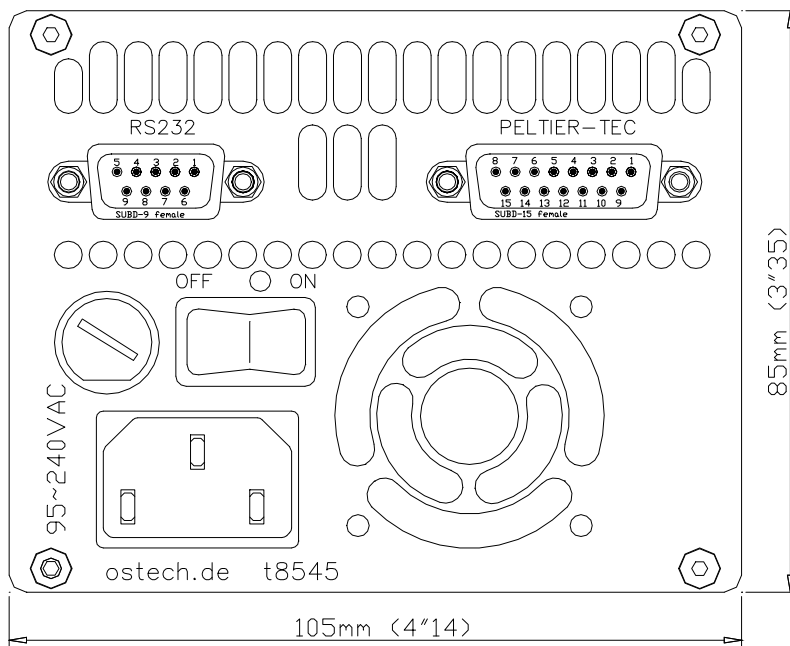


SubD-9 female

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

PIN.No	Abbr.
2	RXD
3	TXD
5	GND

## Tabletop Peltier Controller with 4-wire pt100 support



### Revision overview:

- 2016-03-01: "v3" - TEC-Voltage increased from 14V to 18V
- 2016-09-14: "v4" - device rear to t8545 changed
  - sensor numerating adapted
- 2019-01-13: "v5" - TEC-current to 8A and Voltage to 22V increased

### 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