

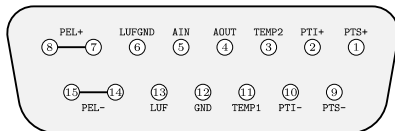
Tabletop Peltier Controller

Type: ps11-pa10v22-t8536-v2-pt100-thcpl-20



- TEC: 0..10A, 0..22V
- Vin: 100~240VAC, 50/60Hz
- The controller has 2 universal temp. sensor inputs for NTC, PT100, PT1000 and others, one 4-wire PT100 or PT1000 input as well as 1-thermocouple K-Type input
- These sensors can freely be related to the TEC-stages
- 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

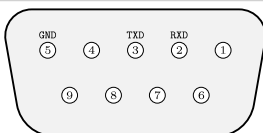
Peltier Connector



SubD-15, female

IN.No	Abbr.	Function
1	PTS+	3. Temp PT100x Supply + 4-wire option
2	PTI+	3. Temp PT100x Input + 4-wire option
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	Ground for Fan Supply
7;8	PEL+	Peltier element (+)
9	PTS-	3. Temp PT100x Supply - 4-wire option
10	PTI-	3. Temp PT100x Input - 4-wire option
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

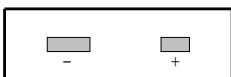
RS232 Connector



SubD-9 female
Standard RS232-Connector
(No Null-Modem Cable !)
9600-Baud-8N1

PIN.No	Abbr.
2	RXD
3	TXD
5	GND

Thermocouple connector Type-K



NKU 1200 O from Greisinger (+NiCr -NiAl)

Tabletop Peltier Controller

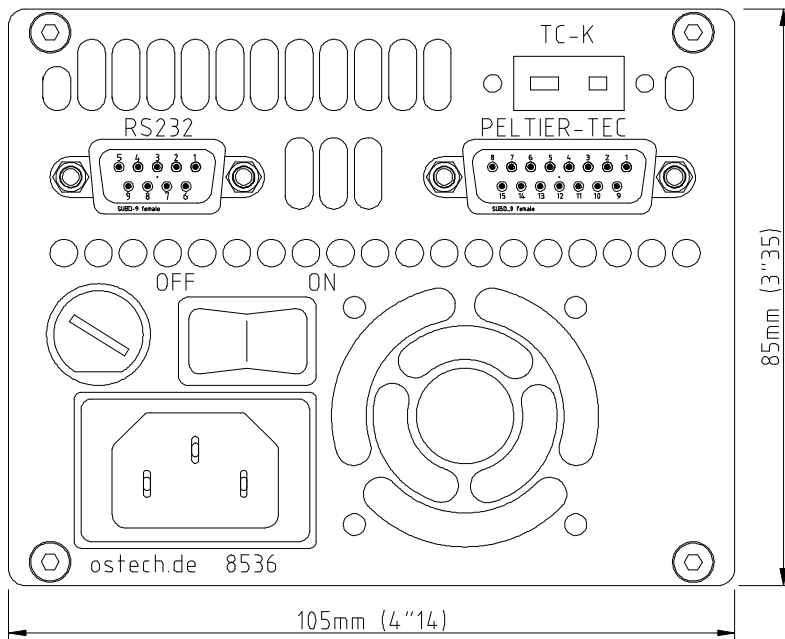


fig: ps11-t8536-rear length 200mm

Temp. Sensor Select Commands:

- * 1TSP1- 1st Sensor NTC10k, 1TSP2- 1st Sensor PT100, 1TSP3- 1st Sensor PT1000, 1TSP0- individual polynomial model with coeffs. 1TSC0,1TSC1,1TSC2 and 1TSC3
- * 2... same for 2nd sensor
- * 3... only 3TSP2- 1st Sensor PT100 and 3TSP3- 1st Sensor PT1000 as 4-wire input
- * 4 only 1 sensor model for thermocouple Type-K

Revision overview:

2016-03-11: "v1" - Interlock removed (t8545) and changed to SoftwareVersion 2031
 2021-07-07: "v2" - thermocouple interface added and max. voltage increased from 18V to 22V

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