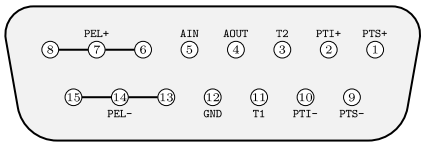
Tabletop Peltier Temperature Controller with pt100 & pt1000 Support

type: ps11-pa15v24-t8538-v2-pt100-616

1.TEC Current max. : 15A
1.TEC Voltage max. : 24V
- Vin: 100~240VAC, 50/60Hz
- the driver has 2 universal Temp. Sensor Inputs and and 1 4-wire PT100 Input
- These Sensors can be freely be related to the TEC
- the Analog Input mapps the applied voltage from 0..10V to LTEL..LTEU and results in the the TT value; where LTEL is the Laser Temp. Lower Edge and LTEU is the upper Edge, TT is the Temp. Target of the Control Loop
- the Analog Output maps LTEL..LTEU to 0..10V and gives the TA 'Actual Temp.' back
- with LTXAR can the Analog Mapping be activated and is deactivated be LTXAS command
- external Fan Support

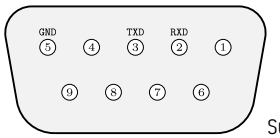
Peltier Connector



SubD15-female

IN.No	Abbr.	Function
6;7;8	PEL+	Peltier element (+)
13;14;15	PEL-	Peltier element (-)
11	T1	1st Temp. Sensor Input
3	T2	2nd Temp. Sensor Input
4	AOUT	Analog Output
5	AIN	Analog Input
12	GND	Common Ground - N.C. To Screen
2	PTI+	3rd Temp PT100x Input + 4-wire option
1	PTS+	3rd Temp PT100x Supply + 4-wire option
10	PTI-	3rd Temp PT100x Input - 4-wire option
19	PTS-	3rd Temp PT100x Supply - 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

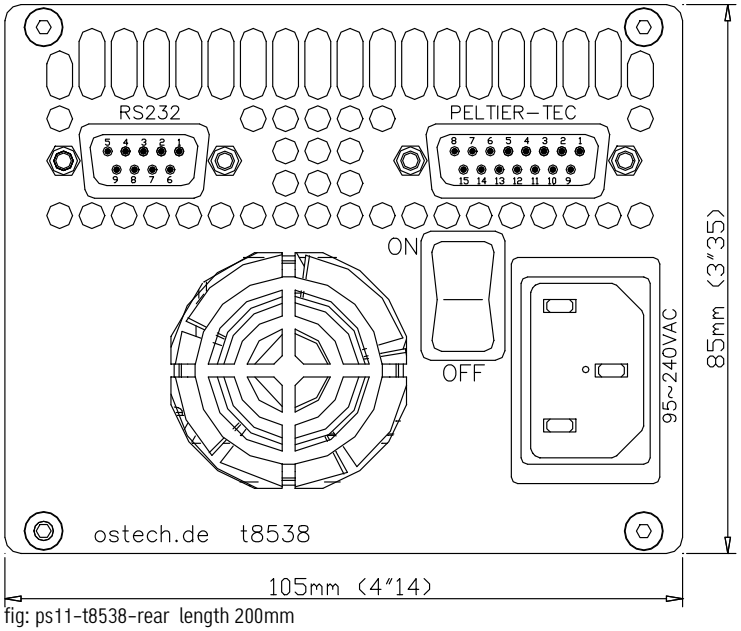


fig: ps11-t8538-rear length 200mm

Revision overview:

2016.02.15: "v0" - new derived type
2017.04.07: "v1" - software version 2031 with extended Sensor interface
2021.01.01: "v2" - software version 2032 (ps11 board based) sensor number 2 and 3 swaped

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

- acc-converter-usb-to-rs232-1m5-iso-417
  RS232 to USB converter optical isolated with FTDI-Chip cable 1.5m
- kab-lpa08-16pol-subd15m-oe-1.5m-39
  cable 16x0.35qmm / subd15-Gold-6,5A per pin to open end / length-1m5