

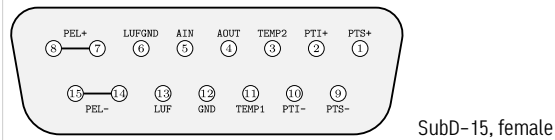
# Tabletop Peltier Controller

Type: ps11-pa12v48-t9512-pt100-1055



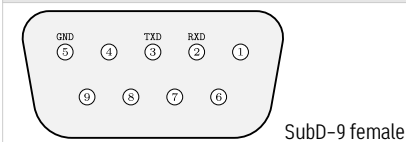
- TEC output max. : 12A, 48V
- Vin: 100~240VAC, 50/60Hz
- The controller has 2 universal Temp. Sensor Inputs (NTC10k) and additional an PT100 input with 4-wire option, all Sensors can freely be related to the TEC stage
- The Analog Input maps the applied voltage in a range of 0..10V to a temp. range LTEL..LTEU and sets the target temperature value TT of the control loop (LTEL, LTEU commands to set the values)
- The Analog Output maps the actual temp. TA in the range of LTEL..LTEU 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
- Temperature Control Range: -25°C to 150°C
- Accuracy typ. ±0.01K
- Fast feedback loop P.I.D. temperature controller
- Temperature and Current limits, Interlock

## Peltier Connector



IN.No	Abbr.	Function
1	PTS+	TEMP3 PT100 Sensor Supply (+)
2	PTI+	TEMP3 PT100 Sensor Input (+)
3	TEMP2	1. Universal Temp. Sensor Input vs. GND (optional input-TEC-ON or output TEMP-OK)
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-	TEMP3 PT100 Sensor Supply (-)
10	PTI-	TEMP3 PT100 Sensor Input (-)
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 (-)

## 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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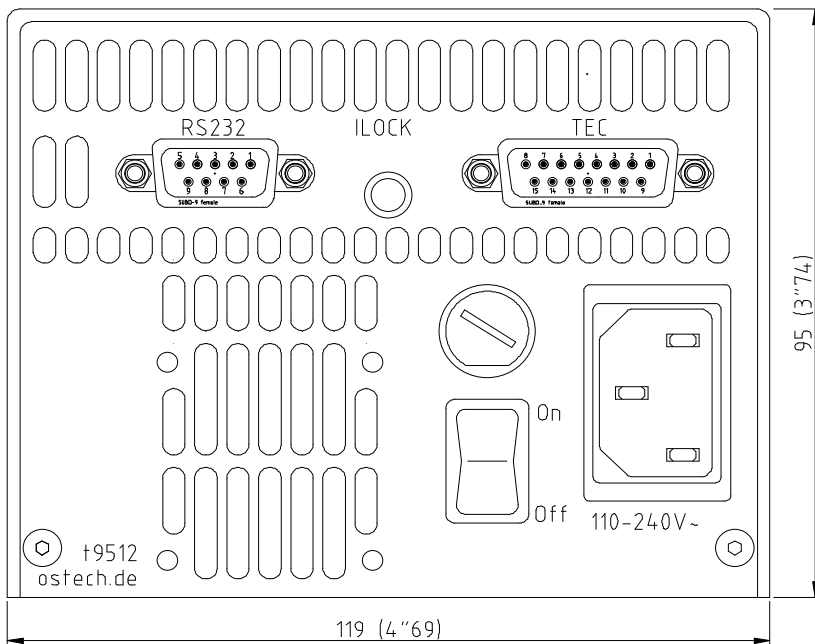


fig: ds01-Rear length 280mm (11")

### Revision overview:

2023-01-01: "v0" - derived from 346

### References:

<http://www.ostech.de/en/products/tec-controllers/ps11-t95>  
<http://www.ostech.de/en/downloads/manuals/ds-en.pdf>  
<http://www.ostech.de/en/downloads/labview>

### Accessories optional

- acc-converter-usb-to-rs232-1m5-iso-417  
RS232 to USB converter optical isolated with FTDI-Chip cable 1m5
- kab-lpa08-16pol-subd15m-oe-1.5m-39  
cable 16x0.35qmm SUBD15-Gold-6,5A/Pin to open end length 1m5