

OEM Peltier Temperature Controller

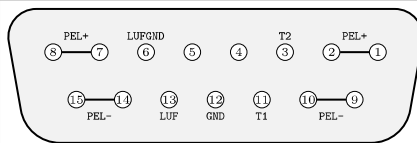
Type: ps01-pa16v18-o44-v0-85



TEC output max.: 16A, 18V
Supply Voltage: 24VDC ± 10%

- The controller has 2 universal Temp. Sensor Inputs
- External Fan Support can be configured freely between 1..24V max. 800mA
- Temperature Control Range: -25°C to 150°C
- Accuracy typ. ±0.01K
- Fast feedback loop P.I.D. temperature controller
- Temperature limits
- Current limits
- Standard Temp. Sensor inputs for NTCs (standard 10 kΩ), PT100, PT1000 or others

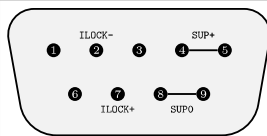
Peltier Connector



SubD-15. female

IN.No	Abbr.	Function
1;2;7;8	PEL+	Peltier element (+)
3	T2	2. Universal Temp. Sensor Input vs. GND
6	LUF GND	Ground for Fan Supply
9;10;14;15	PEL-	Peltier element (-)
11	T1	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
	SCR	Common Screen

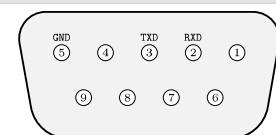
Power and Support Connector for o44 devices



SubD-9 male

PIN.No	Abbr.	Function
2	ILOCK-	Laser runs only on closed Interlock
4;5	SUP+	Power Supply typ. +24V DC
7	ILOCK+	ca. 5mA over 2V, vs. ILOCK-
8;9	SUP0	Power Supply typ. 0V DC

RS232 Connector



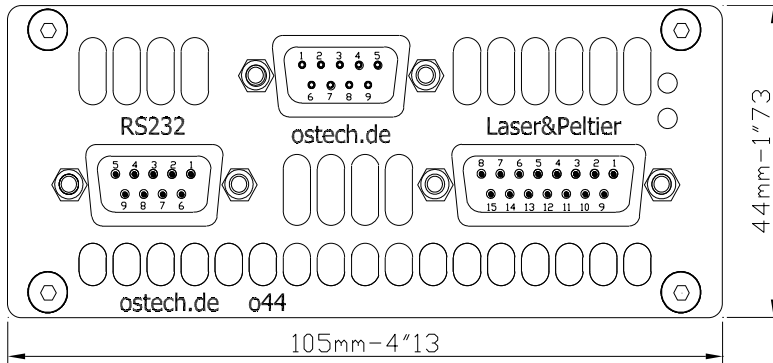
SubD-9 female

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

PIN.No	Abbr.
2	RXD
3	TXD
5	GND



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Revision overview:

2015.10.03: „v1“ - Power Support Connector Pinout Changed, Temp. Sensor input to 1 Pin Version

References:

<http://www.ostech.de/en/products/tec-controllers/ps01-o44>
<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
- nt-90w-24vdc-oem-82
power-supply vout-24V-3.8A-90W for-OsTech-OEM
subd9-plug-for-ds01-o44-devices, vin-90~230AC"