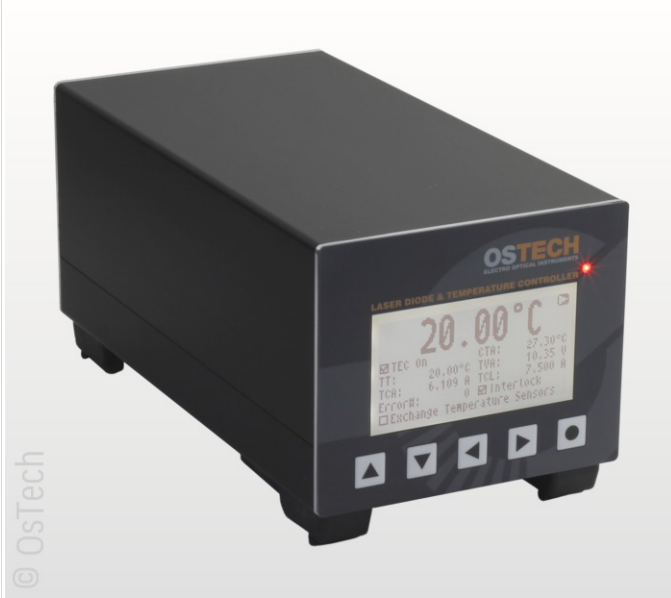



ps11-t85-series
Tabletop Peltier TEC Controller


The product series ps11-t85 of table top drivers has all features of the ds-series. It is powered by an input voltage of 100~230VAC with power factor correction. The power ranges up to 460W. The TEC current ranges up to 20A and voltage up to 48V.

As in all DS devices an RS232 interface for controlling and monitoring is integrated. An Temperature Sequencer is integrated for adjusting temp. profiles. External analog controll is supported.

Optionally, up to 4 TEC circuits are possible.

PRECISION TEMPERATURE CONTROLLER:

- TEC Control Power up to 600W
4A-14V, 8A-14V, 12A-18V, 12A-24V, 7A-48V or others
- Temperature Control Range: -25°C to 150°C
- Temp. Accuracy typ. $\pm 0.01K$
- Temp. Drift 24h $\pm 0.004K$
- Fast feedback loop P.I.D. temperature controller
- Temperature limits
- Current limits
- Standard Temp. Sensor inputs for NTCs (standard 10 k Ω), PT100, PT1000 or others

TEMPERATURE TARGET SEQUENZER:

- Linear Interpolated Target Temperature Points
- Default 10 Points
- Sequenzer only for the 1st TEC-Channel

ANALOG INTERFACE:

- Analog Input for Temperature Target, 0-10V
- Analog Output for Actual Temperature, 0-10V
- Analog Interface only for single channel devices

INTERFACE:

- Front Panel display with touch-keys
- RS-232 remote I/O with optional USB
- free PC User Interface based on LabVIEW™
- free LabVIEW™ VI

DEVICE FEATURES:

- Adjustable External Fan Support, Fan can be controlled depending on load
- Supply Voltage: 98~230VAC
- Depending on type PWM with 150,300 or 500kHz and ripple max. 20..150mV
- Power Factor over all about 85..90% depending on type

OPTIONAL:

- up to 4 TEC circuits
- up to 6 Temp. Sensors
- optimized Temp. Sensor inputs for Thermocouple and 4-wire PT100
- interfaces USB, RS485 or RS422,
- up to 30 Temperature Sequenzer Points
- extendet Temperature Range
- New optioin is additional digital TSic Sensor with up to 0.3°C accuracy

Selection of some Standard Device Configurations:

Type	Device Name	1. TEC Current Max[A]	1. TEC Voltage Max[V]	2. TEC Current Max[A]	2. TEC Voltage Max[V]	Sensoren
346	ps11-pa06v14-t8536-v2-pt100-346	6	14			S-S-S4L
682	ps11-pa06v18-t8539-v1-thcpl-682	6	18			S-S-THCPL
714	ps11-pa07v48-t8543-v0-180-714	7	48			S-S-S4L-S4L-THCPL
20	ps11-pa10v18-t8536-v1-pt100-20	10	18			S-S-S4L
589	ps11-pa12v48-t8539-v1-thcpl-589	12	48			S-S-THCPL
180	ps11-pa15v24-t8539-v1-thcpl-180	15	24			S-S-THCPL
616	ps11-pa15v24-t8538-v1-pt100-616	15	24			S-S-S4L
685	ps11-pa15v24-t8543-v0-180-685	15	24			S-S-S4L-S4L-THCPL
683	ps11-pa08v24-pa08v24-t8543-v1-683	8	24	8	24	S-S-S4L-S4L-THCPL

S - universal Sensor Interface
 S4L - universal Sensor Interface with 4-wire option
 THCPL - thermo couple type-k

If your type is not among the listed types please request!

