

ps01-o44-series

OEM - TEC Peltier Controller



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The product series ps01-o44 of OEM TEC drivers has all features of the ds-series. It is powered by an input voltage of 24VDC. The power ranges up to 400W. The TEC current ranges up to 20A and voltage up to 18V.

As in all DS devices an RS232 interface for controlling and monitoring is integrated. An Temperature Sequenzer is integrated for adjusting temp. profiles.

Multiple TEC circuits for temperature stabilisation with Peltier Elements can be implemented.

PRECISION TEMPERATURE CONTROLLER:

- TEC Control Power up to 600W
2A-14V, 8A-14V, 12A-18V, 16A-18V or others
- 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

TEMPERATURE TARGET SEQUENZER:

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

INTERFACE:

- 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: 24VDC ± 10%

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

ACCESSORIES:

- tabletop power supplies 24V and 90W to 600W with ps01-connector are available

Selection of some Standard Device Configurations:

Type	Device Name	1st TEC Current Max[A]	1st TEC Voltage Max[V]	2nd TEC Current Max[A]	2nd TEC Voltage Max[V]
148	ps01-pa05v14-o4400-v1-148	5	14		
66	ps01-pa08v18-o4400-v1-66	8	18		
305	ps01-pa12v18-o4400-v1-305	12	18		
85	ps01-pa16v18-o4400-v1-85	16	18		
219	ps01-pa04v16-pa04v16-o4400-v1-219	4	16	4	16
590	ps01-pa08v16-pa08v16-o4400-v1-590	8	16	8	16

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

