

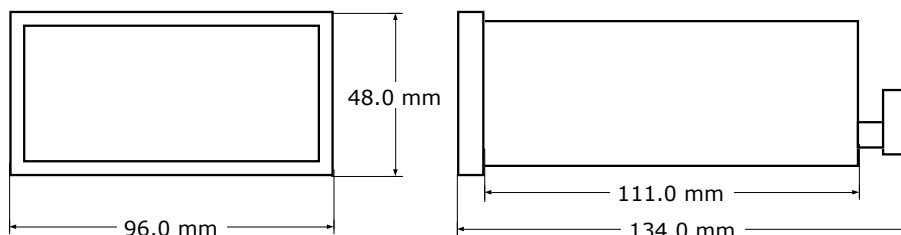


- **Output for Peltier-modules and resistive Heaters**
- **pt100 / pt1000 or customized sensors, user programmable**
- **2-or 3 wire system**
- **PID-Controller, programmable**
- **Control input, optional with „switch on“, „switch off“ of „setvalue-select“-function**
- **Signal output, optional with alarm- or temperature O.K. - function**
- **Two pt1000 auxiliary sensors usable for monitoring heatsink temperature, Fan control, or Dead-Zone-Control of output stage**
- **Swiss Product**

The Peltier- and Heating-Controller TC3224-RS232 operates in two configurable modes. The Peltier-Controller-Mode is specially optimized for driving peltier devices. In Heating-Controller-Mode the device drives electric resistive heaters. In this mode the device can be set up to drive solid-state-relays, to allow the control of large mains-supplied loads.

The TC3224-RS232 is programmable via the front keys or with the supplied software via its serial RS232-interface.

| | |
|----------------------------|---|
| Supply voltage | 12 to 32V DC, Output optionally separated from the controller supply |
| Operating Temperature | 0..40°C, linear derating above 30°C to 18A |
| Output current | up to 24A permanent, PWM-Output with semiconductor H-Bridge, wearless, switching automatically into cooling- or heating mode. |
| Controller | PID-Controller, Parameters freely programmable |
| Sensor input | pt100 or pt1000 (configurable), low measuring current, customized sensor programmable via serial Interface, characteristic curve to be specified via base points in 25-degree steps |
| Auxiliary Sensors | 2- or 3-wire system plus additional shield connection for longer lead lengths |
| Reading- and Control range | 2x pt1000, 2-wire system |
| Readout resolution | -50.0 to +150.0 degree Celsius nominal, monitoring -75.0 to + 175.0°C |
| Display | 0.1 degree for monitoring, 0.05 degree for internal use |
| Process indication | bright and large 7-segment-LED Indication |
| Control input | one LED for heating and cooling each, plus one when in programming mode |
| Signal output | 12 to 32V, isolated with opto coupler |
| Fan output | max. 32V, NPN, isolated with opto coupler, load current max. 100 mA |
| RS232-Interface | max. 32V, Solid State Switch against 0 V, load current max. 1.0 A, on/off |
| Parameter | as standard, connection via terminal block, software included |
| Dimensions | all Parameters will be permanently stored in the flash memory |
| | see drawing below, panel cutout: 92.5 mm x 43 mm |



May be subject to technical changes without notice, 16.09.2021