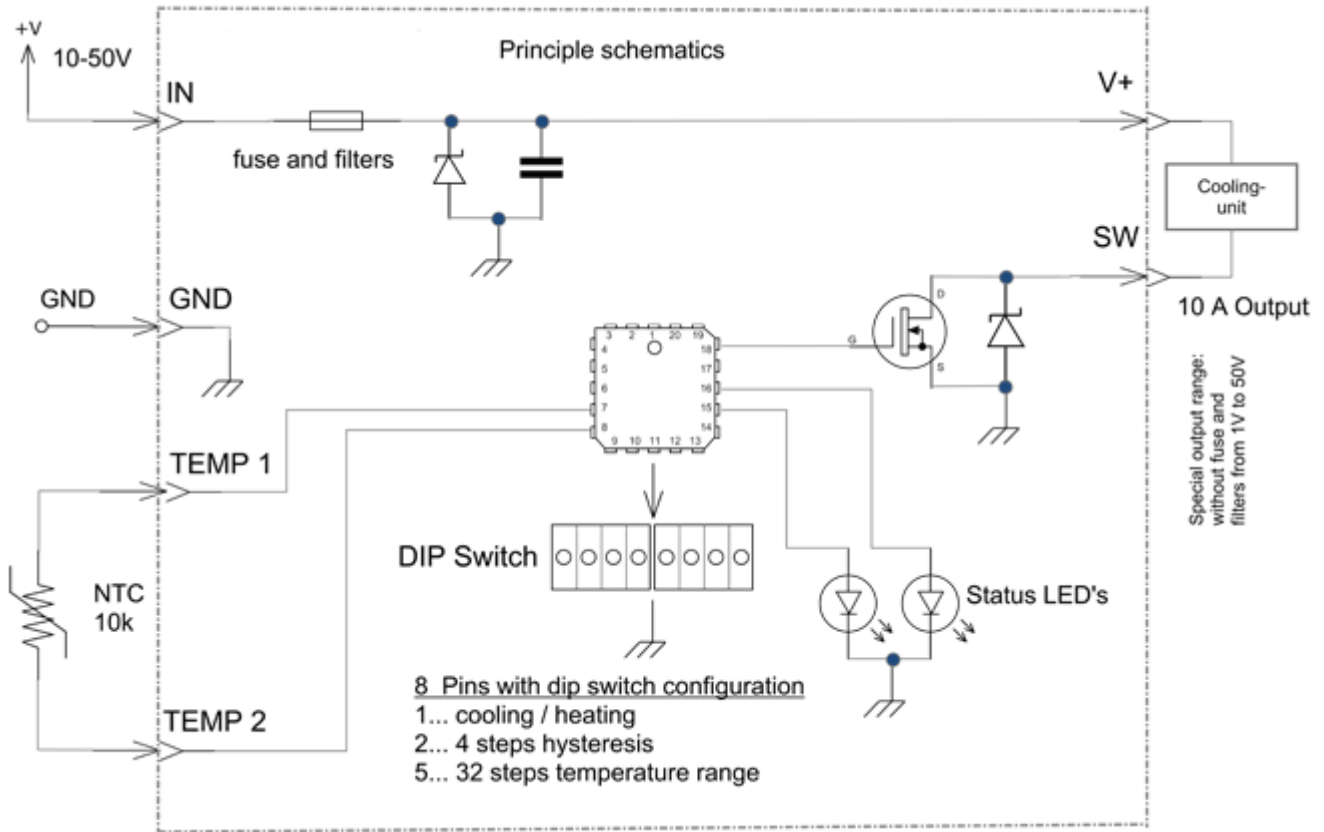
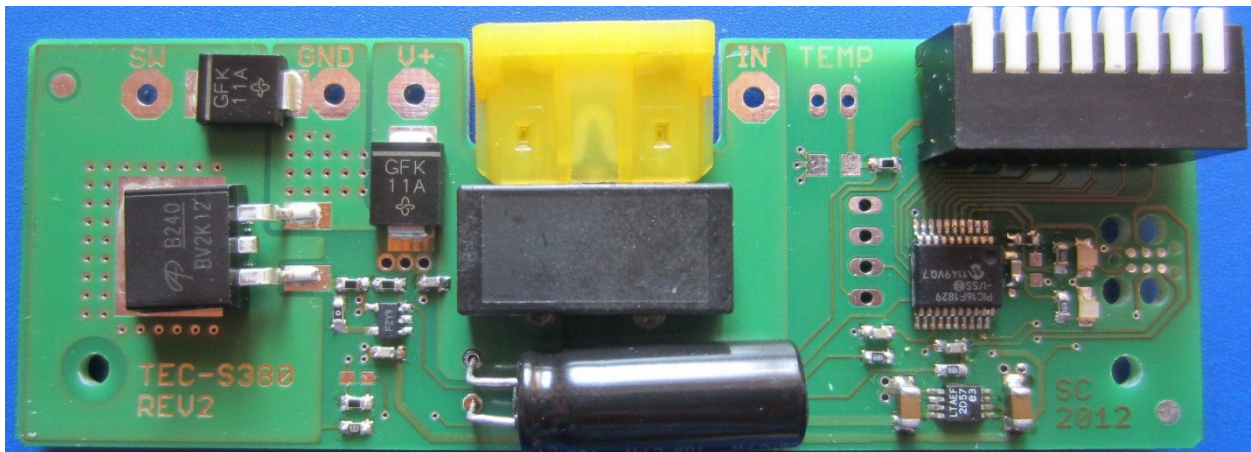


TEMPERATURE MANAGEMENT

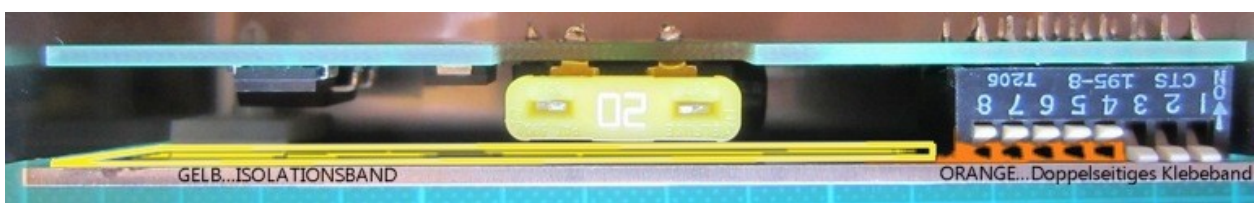
Connection



Top view of controller:

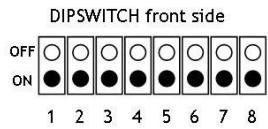


Side view of controller:

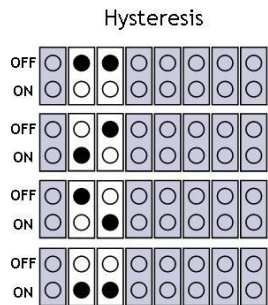
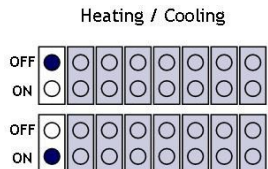


TEMPERATURE MANAGEMENT

Adjustments



Delivery status



Alarm indication:

LED constant bright green:

⇒ MOS-FET switched on

LED green flashing slowly(2 second intervals):

⇒ MOS-FET switched off, controller works

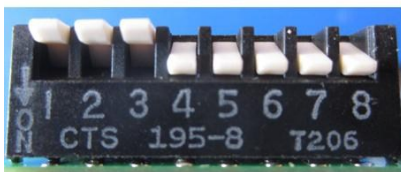
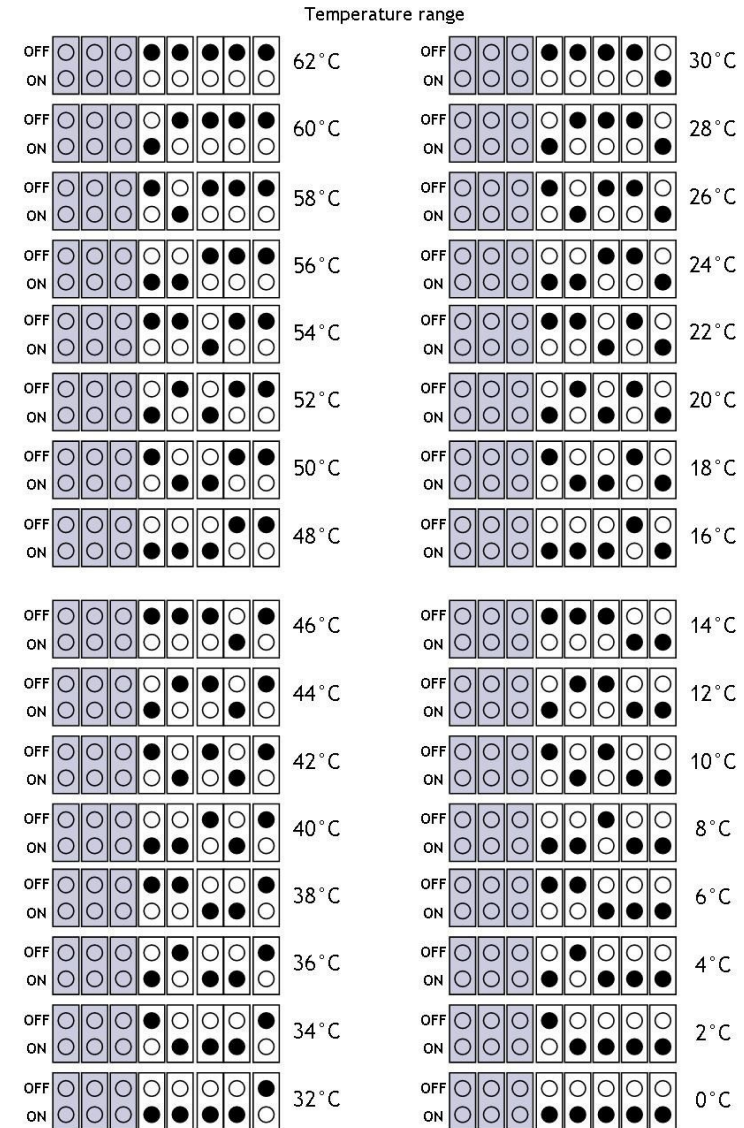
LED red flashing slowly(2 second intervals):

⇒ Temperature at the sensor is too high (>85°C)

⇒ Sensor is defective

LED red flashing slowly (0,5 second intervals):

⇒ Supply voltage out of the working range, too high or too low



Picture: DIPSWITCH sample

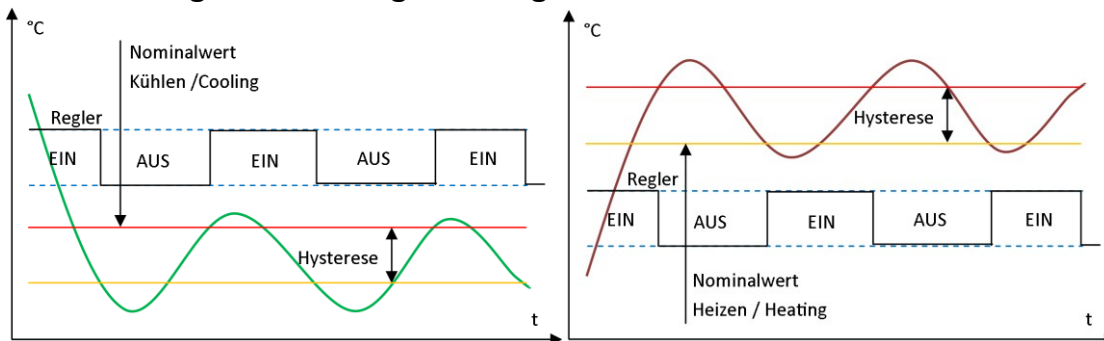
⇒ Function: Heating

⇒ Hysteresis: 1°C

⇒ Temperature: 62°C



Function diagram - heating / cooling



TEMPERATURE MANAGEMENT

Technical specification

Power supply Connection: GND, IN (+) 10-48 VDC	Nominal: 10-48 VDC Maximum: 50 VDC Fuse: 10A
Fuse	Change on board possible (yellow stick)
Temperature sensors: Connection: TEMP(1), TEMP(2)	NTC R ₂₅ -10 kOhm Accuracy at 25°C: 0,1°C
Peltier-Colling Unit connection: (-) Peltier (SW), (+) Peltier (V+)	Nominal 48 V / 8 A @ ambient temperature 40°C At higher temperatures is maximum allowable current lower
Application and Accuracy	2-point controller with adjustable temperature range between 0°C and 62°C. With a DIP-switch is an easy configuration possible. With adjustable 32 steps is resolution 2°C and hysteresis in 4 steps (1°C / 3°C / 5°C / 10°C) selectable.
Switching frequency	15 sec (max. 4 calls per minute)
Ambient conditions	a) Indoor application b) Height up to 2.000 m c) Standard temperature 5 °C - 40 °C d) max. humidity 80 % @ 31 °C; 50 % @ 40 °C e) Changes of power supply \leq 10 % of nominal value
RoHS	conform

Order information

Two orderable parts are available:

UETR-S380-48-KIT

Retrofit kit for cooling units: 100W / 110W / 155W / 215W

UETR-S380-48-INT

Use this part number in addition to cooling units 100W / 110W / 155W or 215W when ordering. You will receive an installed and configured cooling unit with integrated thermostat. Please assign desired configuration for temperature point and hysteresis.