

Control modules

UNIcon temperature control module (2nd edition)



The CTG temperature control module can be combined with various temperature sensors.

The actual value measured on the sensor is compared with the set-point. That produces the 0-10 V output signal. This is used to trigger EC fans, frequency inverters or other devices.

The control module is supplied with 10-24 V DC from the fan or frequency inverter it is triggering. No additional power supply necessary.

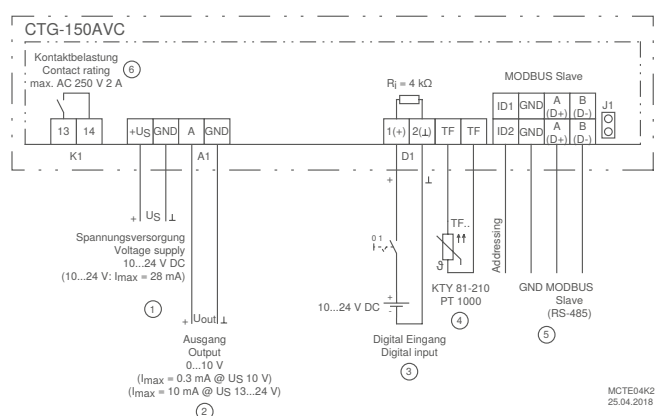
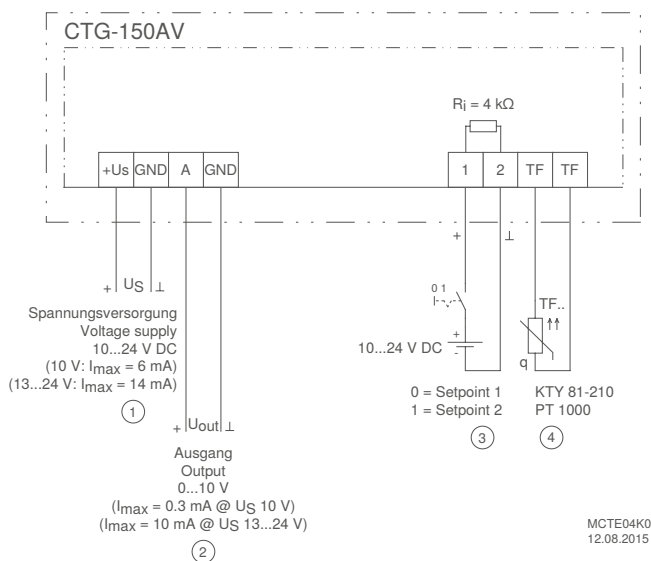
Optionally, the module can also be used as a temperature display. The 0-10 V output signal is then proportional to the set measurement range.

Input for sensors or speed settings through



Connection of temperature sensors,
e.g. Type TF.. sensors, device measurement range -50...+150°C

Connection diagram



- ① Input 10...24V DC
- ② Output 0...10 V
- ③ Temperature sensor KTY 81-210 or PT 1000
- ④ Voltage input for switch

- ① Input 10...24 V DC
- ② Output 0...10 V
- ③ Digital input (voltage ON/OFF)
- ④ Temperature sensor KTY 81-210 or PT 1000
- ⑤ MODBUS Slave interface RS-485 (J1 plugged = Bus terminating resistor 150 Ω active)
- ⑥ Contact rating max. AC 250 V 2 A

Standard conformity

Interference emission according to EN 61000-6-3 (domestic)
Interference immunity according to EN 61000-6-1 (domestic)

Equipment/Characteristics

Integrated display:

For temperature display and for programming

Simple commissioning of the operating modes:

Operation as temperature sensor or temperature controller

Easy to program using 3 buttons:

Select measurement range, enter setpoint (1/2), control range,
Minimum or maximum output signal

Adjustable measurement range when using as temperature sensor:

-50 °C...+150 °C

Voltage input D1 (digital input)

Versions CTG-150AV: Switchover setpoint 1 or 2

Extended versions: CTG-150AVC:

Enable, display of external fault, switch over setpoint 1 or 2

1 analogue output:

To control EC fans, frequency inverters, other devices

Additional CTG-150AVC:

Digital output K1 in CPG-150AVC:

Operating indication, fault indication, external fault at digital input,
indication of limits two-position controller "heating/cooling"

Real-time clock with timer in CTG-150AVC:

For example automatic setpoint switch over

CTG-150AVC with interface RS485 for MODBUS RTU:

Integration into network, manually or automatic addressing possible

UNIcon temperature control module						
DC 10...24 V						
Type	Article no.	Minimum ambient temperature °C	Maximum ambient temperature °C	Protection class	Weight kg	Dimensions (W x H x D) mm
CTG-150AV	320073	-10	60	IP54	0.21	106.3 x 137 x 56
CTG-150AVC	320074	-10	60	IP54	0.22	106.3 x 137 x 56

Dimensions with cable gland