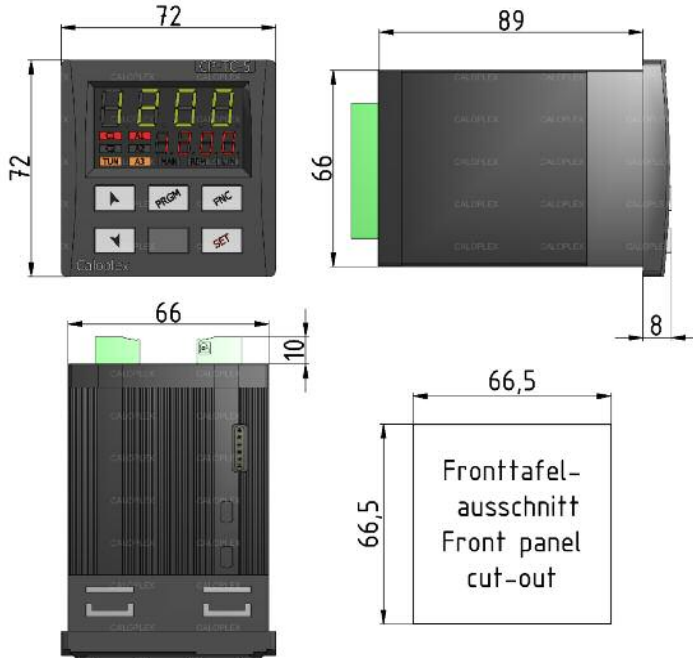




#### Application

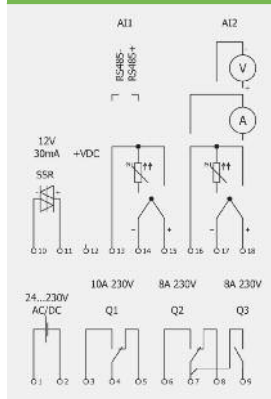
CP-TC-5 was designed for control panel installation and due to its very small size it allows an optimal use of the available space. The crucial difference to model CP-TC-1 is the option of two separate temperature sensor inputs. Thus, it is possible to process two different temperature points in one device. 8A switching power, extended power range, multi sensor input, display showing nominal and actual value, 2 point/PID-control, signal relay and analog outputs are only some of the advantages of this controller. Moreover, a time-saving transmission of parameters to other devices is possible via an interface and an optionally available memory module.



#### General information

Display:	Actual value display 4 digit, height of digits 12,7mm Set point display 4 digit, height of digits 7,5mm
Operating environment:	Operating temperature 0...45°C Humidity 35...95%
Protection class:	IP65, front side with seal (IP54 without seal) IP30, connection area
Material:	Polycarbonate, UL94V0 self-extinguishing
Weight:	240g
Dimensions:	Front dimension: [72x72x99]mm [width x height x depth] Panel cut-out: [66,5x66,5]mm [width x height]

#### Circuit diagram



#### Electrical properties

Analog inputs: two independent inputs	Thermocouples: K, J, S, R (temperature compensation between 0...50°C at clamping units) Resistor sensor: PT100, PT500, PT1000, Ni100, PTC1K, NTC10K Standard input: 0...10V, 0...20mA, 4...20mA, 0...40mA
Measuring tolerance:	All inputs ±0,2%, ±1 digit
Outputs:	Relay changeover 1x8A/250V, normally open contact 1x5A/250V (configurable in connection with the three possible set points)
Continuous output:	SSR output 30mA/12V (also configurable as additional alarm output)
Interface:	Modbus RS485, parameter interface for easy transmission of the parameters to any number of controller
Power supply:	24...230V AC or DC ±15% 50/60Hz (extended power range input with one device)
Power consumption:	5VA
Clamps:	maximum 1,5mm <sup>2</sup>

#### Software properties

Control algorithm:	P, PI, PD and PID, as well as on-off with hysteresis Proportional band: 0...9999°C or °F Integral time: 0,0...999,9s Derivative time: 0,0...999,9s
Limiter function:	The controller can work as limiter, manual reset possible via front keys, storage of actual state despite voltage interruption
Software functions:	Autotuning of the parameters, adjustable alarm values, keylock and lock of parameter levels via password, four set points possible, heating and cooling mode etc.



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