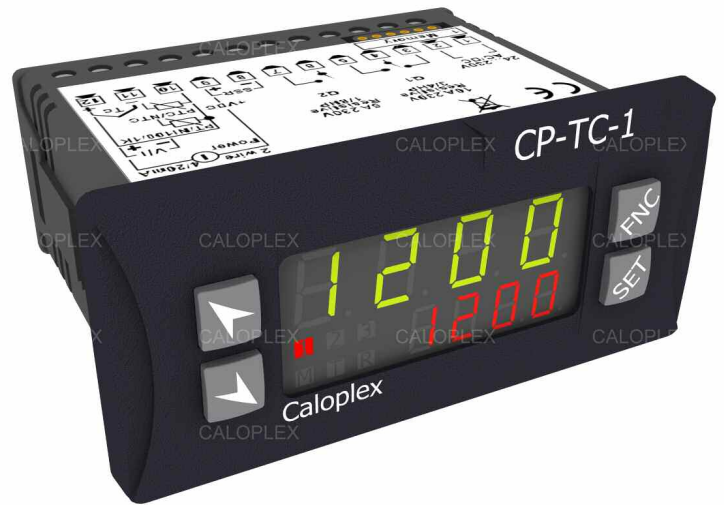
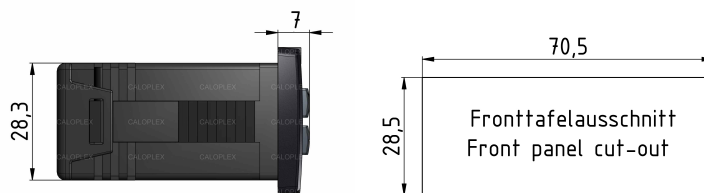
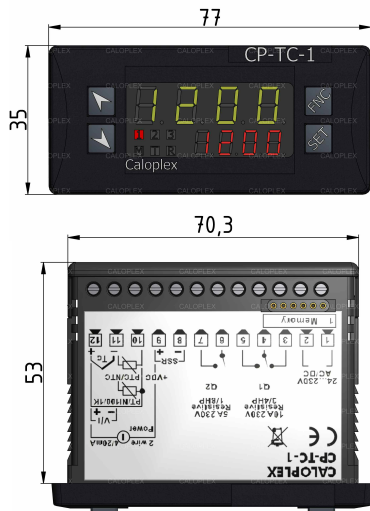




Application
 CP-TC-1 was designed for control panel installation and due to its very small size it allows an optimal use of the available space. 8A switching power, extended power range, multi-sensor input, display showing nominal and actual value, 2 point/PID-control, alarm output are only some of the 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.



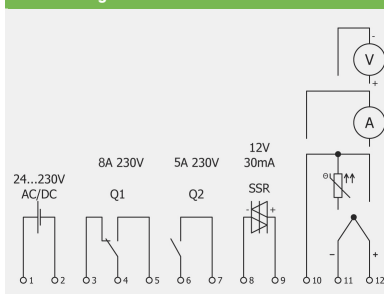
Electrical properties

Analog input:	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...40mV
Measuring tolerance:	All inputs $\pm 0,2\%$, ± 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:	Optional with Modbus via RS485-interface. For easy transmission of the parameters to any number of controls
Power supply:	24...230V AC or DC $\pm 15\%$ 50/60Hz (extended power range with one device)
Power consumption:	3,5VA
Clamps:	maximum 1,5mm ²

General information

Display:	Actual value display 4 digit, height of digits 10mm 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:	110g
Dimensions:	Frontmaß: [77x35x53]mm [width x height x depth] Lochmaß: [70,5x28,5]mm [width x height]

Circuit diagram



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Software properties

Control algorithm:	P, PI, PD, und 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 the actual state despite voltage interruption
Software functions:	Autotuning of the parameters, adjustable alarm values, keylock and lock of parameter levels via password, three set points possible, heating and cooling mode etc.