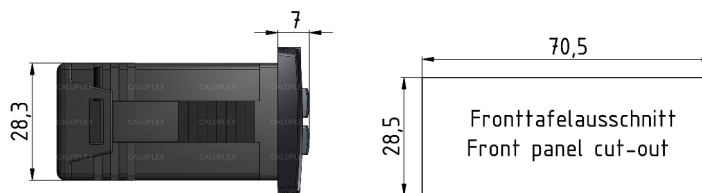
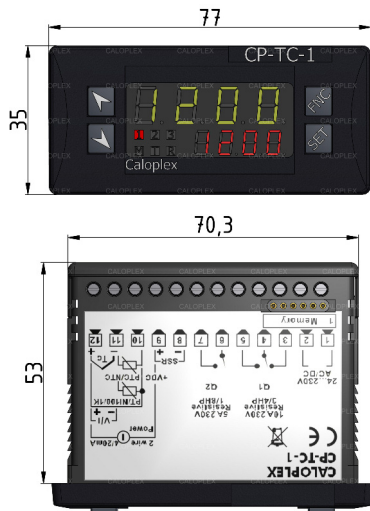




Application
 CP-TC-1 was designed for control panel installation and due to its very small size it allows an optimal use of the available space. 8A switching power, extended power range, multi-sensor input, display showing nominal and actual value, 2 point/PID-control, alarm output are only some of the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



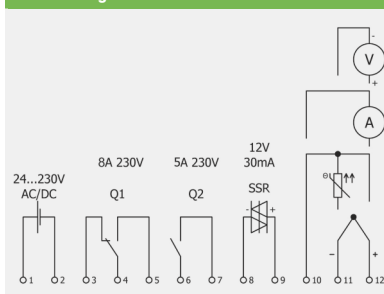
Electrical properties

| | |
|----------------------|---|
| 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. |