

Controlling Temperatures with the Electronic Temperature Controllers MTR



Electronic Temperature Controller MTR



MTR 1000 with casing

The temperature controllers MTR 1000/1020/2000 are designed specially for the rough operating conditions in surface treatment plants; their front panel is covered with a sheet of polyethylene, which is insensitive to chemicals.

The relatively small dimensions permit installation on control panels or, with the aid of a casing, close to the tank, even when space is at a premium. Easy operation and the clear, 7-segment-LED display guarantee problem-free use. The cables are connected with the aid of plug-in terminals.

The parameters of the temperature controller are easily set with the buttons on the front panel. Amongst other things, the following parameters can be set: hysteresis of the switching contact, correction of the actual value, setpoint limiting, alarm limit value.

In order to ensure the best possible safety, the connected temperature sensor is monitored for breakage or a short-circuit of the sensor element. In the case of a fault, the heater is switched off.

The controller MTR 1000 has a logic input. This input can be used to switch to a lower temperature at night.

The MTR 1020 with an operating voltage of 24V (DC) is perfectly suitable for the use in control cabinets or large switchboards.

| | MTR 1000 | MTR 1020 | MTR 2000 |
|------------------------------|--------------|---------------|-----------------|
| Number of setpoints | 1 | 2 | 2 |
| Output contacts | 1 changeover | 1 changeover | 2 changeovers |
| Operating voltage | 230V~ | 16...36V (DC) | 230V~ |
| Max. switched voltage | 250V~ | 250V~ | 250V~ |
| Max. switched current | 10A | 10A | 8A+8A |
| Max. switched power | 2 kW | 2 kW | 1,5 kW + 1,5 kW |

Technical data

| | |
|-------------------------------------|---------------------------------|
| Front dimensions | 84 x 42 mm |
| Installation depth | approx. 85 mm |
| Panel cut-out | 67,5 x 31,5 mm |
| Degree of protection (front) | IP 65 (to EN 60529) |
| Degree of protection (rear) | IP 00 (to EN 60529) |
| Ambient temperature | 0...55°C |
| Max. relative humidity | 0...75% (no condensation) |
| Supply voltage | 230V~ (+10%/-15%), 50...60 Hz |
| Power consumption | max. 4VA |
| Measuring input | Pt 100 with 3-wire connection |
| Measuring range | -60,0...400°C |
| Measuring accuracy | 0,5 K ± 0,5% of measuring range |

