Controlling Temperatures with the Electronic Temperature Controllers MTR

Electronic Temperature Controller MTR

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 24 V (DC) is perfectly suit-able for the use in control cabinets or large switchboards.

MTR 1000 with casing

	MTR 1000	MTR 1020	MTR 2000
Number of setpoints	1	1	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	2kW	2kW	1,5kW + 1,5kW

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	230 V~ (+ 10 % / - 15 %) bei 50...60 Hz
Power consumption	max. 4 VA
Measuring input	Pt 100 with 3-wire-connection
Measuring range	- 60,0...400°C
Measuring accuracy	0,5 K ± 0,5 % of measuring range

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