Controlling Temperatures with the Electronic Temperature Controller MTR 20

Electronic Temperature Controller MTR 20

MTR 20 with casing

The temperature controller MTR 20 is designed specially for the rough operating conditions in surface treatment plants; their front panel is covered with a sheet 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 good readability thanks to the multi-colored, two-line LED display guarantee problem-free use.

With the permanent display of the setpoint and the current actual value on the operating display, the status of the bath temperature can be determined at a glance.

The cable connection is made by directly plugging in solid and fine-stranded conductors with wire end ferrules. The temperature controller is easily parameterized using the buttons on the front. Among other things, the following parameters can be set: Hysteresis of the switching contact, actual value correction, alarm limit value, changeover to cooling mode.

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.

Technical data

Number of setpoints	2
Output contacts	1 changeover + 1 normally open contact
Operating voltage	230 V~
Max. switched voltage	250 V~
Max. switched current	10 A changeover contact 5 A normally open contact
Front dimensions	76 x 36 mm
Installation depth	approx. 62 mm
Panel cut-out	69 +1 x 28,5 + 1 mm
Degree of protection (front)	IP 65 (to EN 60529)
Degree of protection (rear)	IP 20 (to EN 60529)
Ambient temperature	0...55°C
Max. relative humidity	0...90 % (no condensation)
Supply voltage	230 V~ (+ 10 % / - 15 %), 48...63 Hz
Power consumption	max. 4 VA
Measuring input	Pt 100 with 3-wire-connection
Measuring range	-200... +600°C
Measuring accuracy	< 0,25% from measuring range

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