MORE THAN SENSORS
AND AUTOMATION

JUMO eTRON T100

Electronic thermostat with optional PID two-state controller function

Highlights overview

- Space-saving mounting in control cabinets and in sub-distribution boards
- Fast acquisition of the process status through plain text information on the display
- Relay output with 10 A changeover contact for switching high-performance loads
- Fast and reliable wiring through the use of PUSH IN terminals
- Simple startup and operation through plain text support
- Comprehensive timer function
- PID two-state controller with autotuning

Type 701052

Product benefits

- High vibration resistance of the connections due to the consistent clamping force of the PUSH IN spring-cage terminals
- Process values, setpoint values, and switch positions can be shown directly in the display as plain text information
- The configurable display allows 100 % adaptation to the process; even units for other measurands can be displayed
- Simple storage, as 4 languages are available in the device
- USB interface (powered) allows transfer of setup configuration without additional voltage supply
- Configuration of a separate user level, which provides quick access to important process parameters
- Service and operating hours counter as well as data logger enable predictive maintenance
- Logical operations can be implemented via digital control signals
- Meeting the standards and specifications for use in rail vehicles according to DIN EN 50155, DIN EN 50121, and DIN EN 45545
- High control quality with optional PID two-state controller function including autotuning

Brief overview

The electronic thermostat for DIN-rail mounting was especially designed for temperature control and monitoring. RTD temperature probes, thermocouples, as well as current or voltage signals can be connected to the measurement input; the same applies to special temperature probes for railway technology. On the output side a 10 A changeover contact relay and a PhotoMOS® relay are available. The electrical connection is made via PUSH IN connection. The thermostat is operated and parameterized using 4 keys. A configurable operating level enables quick access to important parameters directly on the device. The intuitively operated device is optionally available as a PID two-state controller.

Technical data

Format	22.5 × 93.5 × 61.6 mm (Width × Height × Depth)
Mounting	On DIN rail 35 × 7.5 mm
Measuring inputs	Pt100, Pt1000, KTY2X-6; thermocouple type J, type L, and type K; 0(4) to 20 mA; NTC 5 kΩ (at 25 °C); Ni 1000 DIN 43760, Ni 1000 Landis+Gyr TK5000
Display	Dot-matrix LCD display
Outputs	1 relay (changeover contact 10 A); 1 PhotoMOS®relay
Special features	Data logger as well as service and operating hours counter, timer function
Electrical connection	PUSH IN terminals

Application areas

- Standard industrial applications
- Heating and refrigeration technology
- Railway applications
- Building technology

PR 70112 EN/00708519/V2