

JUMO launches electronic thermostats on the rails

Large range of functions in a small housing

The JUMO eTRON T100 electronic thermostat for DIN rail mounting has been specially developed for temperature control and monitoring. In addition to the thermostatic function, it can also be used as an option for more demanding control processes and, in the version as a PID two-point controller with self-optimization, it delivers a significantly higher control quality.

The JUMO eTRON T100 impresses with its compact size and a wide range of functions. Among other things, timers, data loggers, service and operating hour counters, a PhotoMOS output for additional limit signaling and a digital input are integrated. With the help of digital control signals, logical links (AND, OR, XOR) can be created and processed internally.

In addition to the input signals for resistance thermometers and thermocouples, a measurement input 0(4) to 20 mA is also available for connecting other process variables. In addition to UL approval, the device also meets the standards for the railway industry of category 1B. Relevant measurement inputs, such as Ni1000, have been integrated especially for the requirements of this industry.

For displaying process values, parameters, switching states and the electrical connection diagram, the JUMO eTRON T100 has a configurable dot matrix display.

A clearly structured operating concept supported by additional texts – for this purpose, 4 languages are already available in the device – as well as practical quick wiring via vibration-resistant PUSH-IN terminals enable quick and easy commissioning. Alternatively, the configuration can also be done via a setup program and the standard micro-USB interface.

Thanks to its compact design, the JUMO eTRON T100 can be easily integrated into control cabinets and sub-distribution boards.

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Seite 1 von 2

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Photo: JUMO

Caption: With the JUMO eTRON T100, safe temperature monitoring is also possible in trains.

The JUMO Group, headquartered in Fulda, Germany, employs more than 2,500 people worldwide and is a leading system and solution provider for industrial sensor and automation technology. JUMO products are used around the globe, for example, in the "Heating and Air Conditioning", "Food and Beverage", "Renewable Energies" or "Water and Wastewater" industries. The group of companies includes 5 branches in Germany, 25 subsidiaries in Germany and abroad and more than 50 agencies worldwide. Sales in 2023 were 312 million euros.