



More than **sensors + automation**

JUMO dTRANS T06 Ex

Multifunctional four-wire transmitter in mounting rail case with SIL and Ex approval



The features at a glance

- Universal input for a large number of sensors and standard signals
- Establishment of safe measuring chains (SIL 2 or SIL 3)
- Use of the sensor in Ex zone 0 due to approval according to ATEX and IECEx
- Intuitive operation and configuration on the device or through USB interface with setup program
- Sensor matching for RTD temperature probes
- Customer-specific linearization
- High level of galvanic signal isolation



Type 707075

Brief overview

The JUMO dTRANS T06 Ex multifunctional four-wire transmitter is characterized above all by its high level of safety. This multipurpose unit enables the establishment of safe temperature measuring chains (SIL 2 or SIL 3), which allow the temperature probe to be used in Ex zone 0. The device can be used with RTD temperature probes, thermocouples, resistance transmitters/potentiometers, as well as voltage and current signals. It converts these input signals into a voltage or current output signal (0(2) to 10 V or 0(4) to 20 mA). The universal measurement input with a 22-bit resolution ensures maximum measuring precision with the JUMO dTRANS T06 Ex. The reliable three-way isolation of input, output, and supply guarantees high degree of signal stability even under difficult measuring conditions.

Other advantages:

- Simple and convenient configuration on the device and on the PC
- Diagnostic functions support during startup and maintenance work
- Coded terminal strips for quick installation and safe replacement during calibration and maintenance work
- Optional RS485 interface for connection to automation technology

Technical data

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|-------------------|---|
| Designation | JUMO dTRANS T06 Ex |
| Data sheet | 707075 |
| Format | 22.5 mm × 121 mm × 126 mm (W × H × D) |
| Mounting | On mounting rail 35 × 7.5 mm |
| Measurement input | RTD temperature probe in two-wire, three-wire, and four-wire circuit; thermocouple, double thermocouple; resistance transmitter; resistance/potentiometer in two-wire, three-wire, and four-wire circuit; voltage 0 to 1(10) V; current 0(4) to 20 mA |
| Configuration | Via USB connection and setup program or keys and display |
| Output | Voltage DC 0(2) to 10 V, current DC 0(4) to 20 mA, RS485 interface |
| Approvals | SIL, PL, ATEX, IECEx |
| Special features | Use of the sensor up to Ex zone 0, SIL 2 (hardware) and SIL 3 (software), min./max. drag indicator, operating hours counter, output simulation |
| Application areas | Power plant technology, chemical industry, mechanical/plant engineering, process industry, industrial furnaces, pharmaceutical industry |

Information on measuring points directly retrievable on the display

A particular highlight is the configuration-related appearance of the connection diagram on the display.

