

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



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

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.

