More than sensors + automation

JUMO dTRANS T07 Series

Two-channel temperature transmitter with HART®/Ex/SIL

Universally specialized

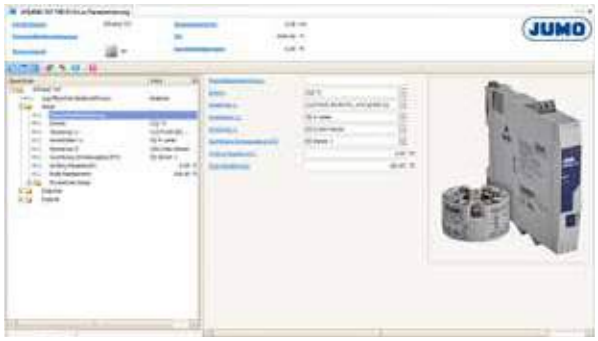
- Two universal measurement inputs (RTD, TC, Ω, mV)
- High degree of accuracy as of 0.1 K with Pt100 sensor
- Output 4 to 20 mA (single channel, loop powered)
- Different housing versions: B-head or DIN rail
- HART® 7 protocol with extension for "secure HART"
- SIL 2/3 – hardware/software – according to IEC 61508:2010
- Reliable measurement mode through sensor monitoring and device hardware error detection
- Optional plug-on display for B-head version

HART COMMUNICATION PROTOCOL

Types 707080, ... 81, ...82, ...83, ...85, ...86, ...87, ...88

Easy-to-use configuration and startup

The transmitters can be configured quickly and easily with the FDT framework program (Field Device Tool) and the DTM (Device Type Manager).



The configuration with a "handheld communicator" and associated DD (Device Description) is also supported.

Brief overview

The JUMO dTRANS T07 device series is a two-channel temperature transmitter with HART® communication which is available in B-head or in DIN rail housing version. The versions with Ex and SIL approval (IEC 61508:2010) for SIL 2/3 (hardware/software) enable secure use in demanding process applications.

The configurable transmitter transfers converted signals from RTD and TC sensors as well as resistor and voltage sensors to the galvanically isolated 4 to 20 mA current output with HART®-7 protocol. An internal sensor monitoring function and device error detection enables high measuring point availability.

An optional plug-on display can be used to display the current process value on the B-head version.

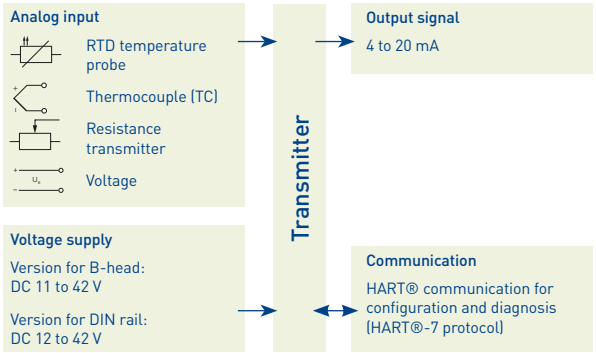
Plug-on display (option)

Accessories: Field housing for B-head version

Field housing for probe protection tube mounting

Field housing for wall or pipe mounting

Block diagram



Application areas

In the chemical, oil and gas, power plant, and energy industries as well as in all others in which secure and reliable temperature measurement is required.

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