

# JUMO

More than **sensors + automation**

## JUMO dTRANS T07 Series

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



### Universally specialized

- Two universal measurement inputs (RTD, TC,  $\Omega$ , 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

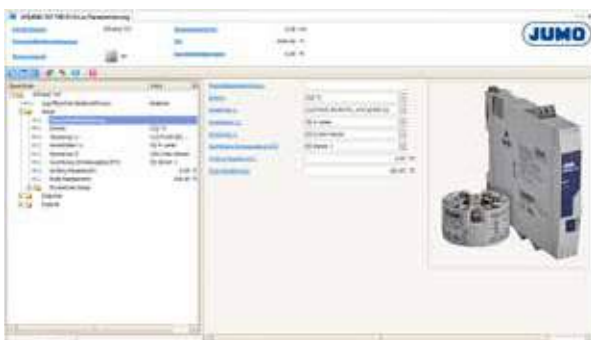
**HART**  
COMMUNICATION PROTOCOL



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)



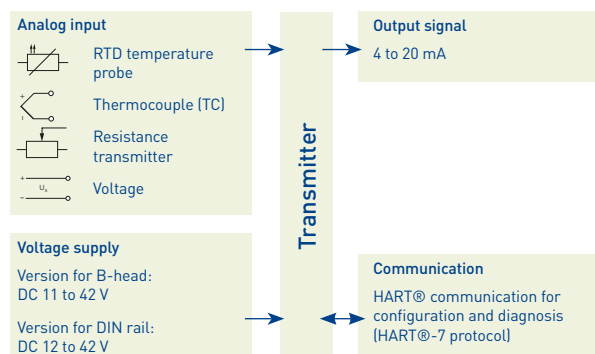
## Accessories: Field housing for B-head version



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.