

The T82 programmable HART® field temperature transmitter is a 2-wire unit with analog output. It includes input for RTDs: resistance inputs in 2-wire, 3-wire, and 4-wire connections; thermocouples and voltage signals. The transmitter can be supplied with or without a digital display, in a general-purpose aluminum screw-cover housing. The T82 can be programmed using a HART® protocol handheld terminal. When supplied with a digital display, the LCD display shows the current measured value. When specified, the T82 transmitter is available with an optional Safety Integrity Level Rating (SIL) for critical applications.

PROGRAMMABLE DUAL INPUT TEMPERATURE TRANSMITTER

Programmable temperature transmitter for resistance thermometers (RTDs), thermocouples, resistance inputs and voltage inputs:
adjustable via HART® protocol.



General Application Areas

- Temperature transmitter with 2 input channels and HART® protocol for converting various input signals to an analog, scalable (4 to 20) mA output signal
- Input:
 - Resistance thermometer (RTD)
 - Thermocouples (TC)
 - Resistance input (Ohm)
 - Voltage input (mV)
- HART® protocol for operating the device on site using a handheld communicator

SIL Application Areas

The device meets the following requirements

- Functional safety in accordance with IEC 61508, ed. 2.0
- Explosion protection
- Electromagnetic compatibility in accordance with the EN 61326 Series and NAMUR Recommendation NE21
- Electrical safety in accordance with EIC/EN 61010-1

Features and Benefits

- Universally programmable with HART® protocol for various input signals
- 2-wire, single, analog output (4 to 20) mA
- Undervoltage detection
- Highly accurate in entire operating temperature range
- Approvals: FM, CSA, ATEX and IECEx (IS, NI)
- Galvanic isolation
- Output simulation
- Customized measuring range setup or expanded SETUP; see manual

SIL Features and Benefits

- Can be used for measuring points with one sensor or two sensors up to SIL2
- Creation of two measuring points up to SIL 3
- Functional Safety Assessment by TUV Sud in accordance with IEC 61508, ed.2.0
- Permanent self-monitoring
- Permanent monitoring of internal connections
- Safe parameterization

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