

- Universally programmable for
 - RTD's
 - Thermocouples
 - Resistance-sensor
 - mV-sensor
- Output linear to temperature with input signal from RTD's and thermocouples
- Analog output 4...20mA, invertable, 2-wire design
- Signalling configurable for sensor burnout and sensor short circuiting
- C.S.A. intrinsically safe for hazardous locations, Class I, Groups A, B, C, & D
- Galvanic isolation
- 100% Rh protection, moisture condensation permissible
- Increased ambient temperature
- PC-configurable, Windows-programme



Interesting facts about the T12 transmitter series

The digital temperature transmitter T12 range is designed for universal industrial use.

Comprehensive configuration possibilities: for example, type of sensor, measuring range and error signalling, reliable accuracy, galvanic isolation and EMI protection characterize these transmitters.

During configuration any one of 16 input signals can be selected. Measured temperatures are from -200°C up to +2300°C.

The following sensors can be connected:

- RTDs with 2, 3 and 4 lead connection, the connection system used is configurable and ensures an optimal lead wire compensation.
- thermocouples per IEC 584, DIN 43710 and ASTM E988 Cold junction compensation (CJC) is built-in, the use of an external CJC is selectable Via configuration.
- resistance-sensors up to 5 kW in 2, 3 and 4 lead connection, configurable compensation of the connection cable.
- mV sensors up to 800 mV.

Configuration is done by means of a standard DOS PC using the Configuration-Set. With the Configuration Software the required parameters are defined. Data to the T12 is down loaded using a Communication-Interface (Programming Unit). The bi-directional communication enables displaying the measured values on the PC.

Configuration can be done while the transmitter is mounted in the field. The Communication interface has an integral isolation barrier which allows configuration while the transmitter is within hazardous areas, and acts to protect the PC. Configuration sets are available as an optional extra.

The transmitters are delivered with a basic configuration (see order information). Upon request, transmitters can alternatively be delivered with a customized configuration within the given limits.