

TRANSMITTER

To convert the measured physical value into a standardized output signal

OPERATING PRINCIPLE

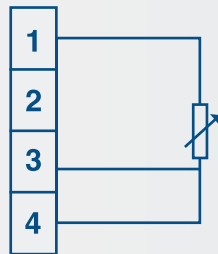
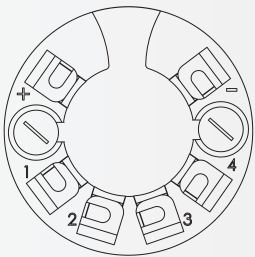
The electrical input connections (resistance probe or thermocouple) are made on the transmitter. It converts the temperature value and delivers a standardized output signal suitable for industrial control applications.

GENERAL DATA⁽¹⁾

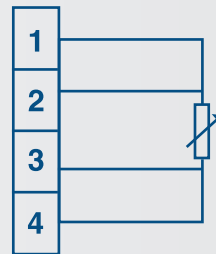
- Standards: IEC 61326 / NF EN 61326 (CEM)
- Mounting: probe head or DIN rail
- 4-20 mA or 0-10 V type standardized output signal
- Fixed input (resistance probe or thermocouple) or configurable universal input



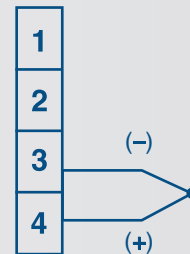
EXAMPLE OF CONNECTION TO TRANSMITTER



Pt 100 Ω – 1 x 3 wires



Pt 100 Ω – 1 x 4 wires



Simple thermocouple

TECHNICAL CHARACTERISTICS⁽¹⁾

Programmable	via PC, HART communication
Sealing	Up to IP66
Measuring scale	-200 °C to +1600 °C depending on the probe
Supply voltage	8 – 30 Vcc
Electrical approval ⁽²⁾	ATEX explosion-proof or intrinsically safe on request
Accuracy	Resistance probe ≤ 0.1 % of the measuring range or ≤ 0.5 °C whichever is greater Thermocouple: 0.5 °C to 5 °C depending on the temperature range
Galvanic isolation	1.5 kVac
Safety	SIL2 ⁽³⁾

⁽¹⁾ Only standard data are exposed on this page. Other designs are available on request.

⁽²⁾ For more details, see information on ATEX on page 81.

⁽³⁾ SIL (Safety Integrity Level) certification reflects the operating safety level of measuring instruments according to IEC 61508 / NF EN 61508 standards. For more details, see «Technical information» section on page 81.