simex

SPT-85

- ◔ **programmable temperature transmitter**
- ◔ **universal measuring input**
- ◔ **standard dimensions**
- ◔ **loop-powered**
- ◔ **DIN rail or in-head mounting**

CE

The smart non-isolated transmitter **SPT-85**, is designed for in-head or DIN-rail mounting.
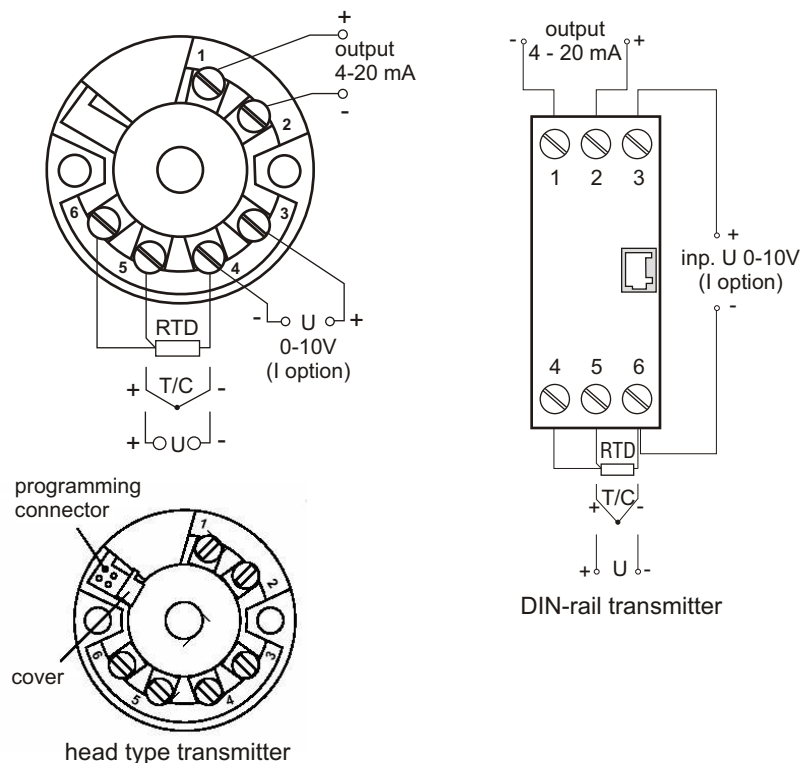This transmitter allows the user to:
- select sensor and input signal type (4 RTD types, 6 thermocouples and 3 linear signals);
- select and adjust input range;
- perform offset correction and device calibration;
- select output reaction on sensor break;
- adjust the digital filter.

SPT-85 transmitter is easy to program by using the specialized configuration software with no need of power supply. Thanks to its large capabilities and low price, **SPT-85** can be very useful in different industrial applications requiring temperature conversion before following measurement and control.

- low cost,
- accuracy 0,3 %,
- in-built, programmable digital filter,
- fully programmable,
- any temperature range within limits,
- output linear with temperature,
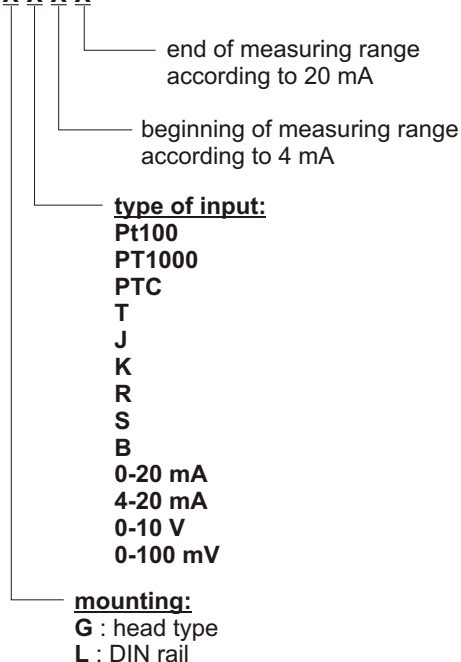- accessories and sensors available.

Wiring diagrams

programming connector

cover

head type transmitter

DIN-rail transmitter

Ordering

SPT-85-X-X-X-X

- end of measuring range according to 20 mA
- beginning of measuring range according to 4 mA
- **type of input:**
  - **Pt100**
  - **PT1000**
  - **PTC**
  - **T**
  - **J**
  - **K**
  - **R**
  - **S**
  - **B**
  - **0-20 mA**
  - **4-20 mA**
  - **0-10 V**
  - **0-100 mV**
- **mounting:**
  - **G** : head type
  - **L** : DIN rail

Technical data

Input signals:
RTD Pt-100, 3-wire:	-100 ... +850°C JIS or DIN
RTD Pt-1000, 3-wire:	-100 ... +600°C JIS or DIN
PTC, 3-wire:	-50 ... +150 °C (1k/2k @ 25°C)
thermocouple „T":	-40 ... +400°C
thermocouple „J":	-20 ... +1000°C
thermocouple „K":	-20 ... +1300°C
thermocouple „R":	0 ... 1700°C
thermocouple „S":	0 ... 1700°C
thermocouple „B":	100 ... 1800°C
linear voltage	0-100 mV DC
custom linear (AUX)	0-10 V DC (option: 0-20 mA, 4-20 mA)

Min. range: 50°C (for RTD inputs); 100°C (for thermocouples)

Power supply: 8 - 32 VDC ±10%
Maximum load: 750 Ω @ 24 VDC / 20 mA
Output: 4-20 mA, 2-wire
Measurement error: 0,3 % of measurement range
Temperature drift: ± 0,01 % of measurement range for 1 °C
Digital filter: programmable
Reaction to sensor break: less than 3,8 mA or more than 20,2 mA, programmable
Communication: RS-232
Programmability: with configuration software
Operating temperature: -20°C to 85°C
Operating humidity: 0 to 90% RH, non-condensing
Size: Ø 43 x 23 mm (G head mounting); 90 x 18 x 58 mm (DIN-rail mounting, L)
Weight: 40 g (head mounting); 60 g (DIN-rail mounting)

V.8.04.1

4.2.3.