

Programmable loop-powered Pt100 transmitter

For mounting in sensor head type B

Consumption 4-20 mA, equivalent to temperature input

For 2,3 or 4 wire sensors

Made in accordance with the **CE** and EMC regulations



C-mac temperature transmitter type TT22 is specifically designed for standard sensor head, type B.

The transmitter, which must be connected to a Pt100 sensor element, is loop-powered, which means the current consumption is proportional with the temperature at the Pt100 sensor.

The transmitter is available in 4 standard variants, covering the most popular metering ranges. On request, the transmitter can be supplied for special metering ranges.

By means of a programming unit it is also possible to program the transmitter yourself within the ranges -200 to 850°C and minimum span 25°C.

You can also program the reaction delay and several other parameters.

Technical data:

Metering input: 2, 3 or 4-wire Pt100
acc.to DIN 43760

Output: Current consumption 4-20 mA,
proportional with the actual temperature at the Pt100 sensor.

Cable fault: Short circuit: typ. 3,5 mA
Breakage: typ: 23 mA

Supply voltage: 8,5 - 30 VDC

Voltage drop: min. 8,5 V

Linearity: 0,1%

Temperature stability:
span <100°C: < 0,02% / °C
span 100°C: < 0,01% / °C

Operation temp.: -20°C to +50°C

Response time (10-90%): 0,1 sec.

Dimensions: Ø44 x 20 mm

EMC-data:
Emission: EN 50081-2
Immunity: EN 50082-2

Standard metering ranges, all 3-wire:

-50 to + 50°C

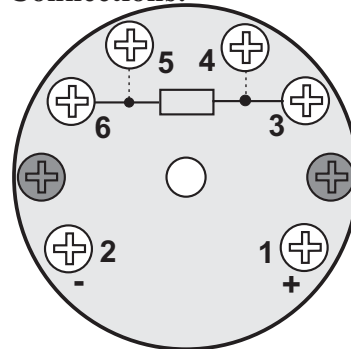
-50 to +150°C

0 to 100°C

0 to 200°C

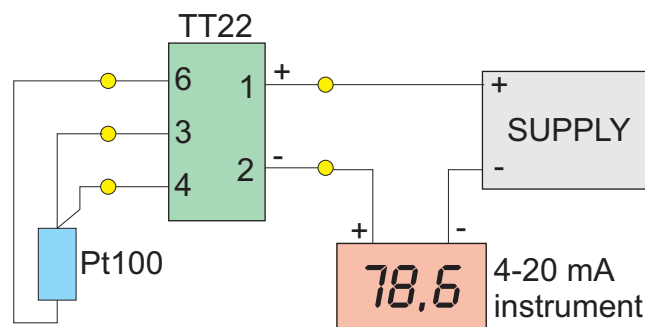
Special metering ranges available on request

Connections:



pin 1: current +
2: current -
3: Pt100 sensor
4: Pt100 sensor, 3 wire
5: Pt100 sensor
6: Pt100 sensor, 4 wire

Connection example:



Ordering guide:

TT22-1: metering range -50 to +150°C
TT22-2: metering range 0 to +100°C
TT22-3: metering range 0 to +200°C
TT22-4: metering range -50 to +50°C
TT22-x: specify metering range

TTP22: Programmable unit
Flextop: Programming interface