

2 wire loop powered head transmitter for Pt100/Ni100 WT120



- Converts a Pt100/Ni100 signal into 4 to 20 mA, 20 to 4 mA
- 16 bit resolution (high accuracy)
- Supply from the current loop 5 to 30VDC
- Simple commissioning via software
- 2-, 3- or 4-wire technology
- Quick installation thanks to spring terminals

<https://www.wachendorff-prozesstechnik.de/en/WT120>

Description

The WT120 signal converter converts signals from a Pt100 or Ni100 temperature sensor into a mA standard signal. The signal converter is supplied from the current loop. The output signal is linearly proportional to the input. The signal converter can be fully adjusted via software before installation and is immediately ready for operation. No power supply is required for programming via the software, as this is done via the programming plug.

Product details

Channels:	1
Entrance:	Pt100 from -200°C to 650°C or Ni100 from -60°C to +250°C in 2-, 3- or 4-wire technology, adjustable via software.
Output:	4 to 20 mA or 20 to 4 mA, adjustable via software. The output signal is linearly proportional to the input.
Resolution:	16 bit
Accuracy:	+/-0.1 % of the measuring range or 0.1°C
Mains filter:	50 / 60 Hz
Response time:	< 220 msec; < 620 msec (with active mains filter)
Temperature coefficient:	< 100 ppm (30 ppm typical)
Sampling rate:	100 msec to 300 msec (with active mains filter)
Supply:	5 to 30 VDC from the current loop.
Safety:	EN61010-1:2013-10
EMC:	EN61000-6-2:2006-10 EN61000-4-4:2013-01 EN61000-6-4:2007-11 + A1:2013-01 EN61000-4-5:2015-05 EN61000-4-2:2011-04 EN61000-4-6:2014-09 EN61000-4-3:2007-04 + A1:2009-01 + A2:2011-01 EN61000-4-11:2006-02
Ambient conditions:	30 to 90% relative humidity at 40°C Operation: -40 to +85°C Storage: -40 to +105°C
Connection type:	Spring terminals from 0.2 to 2.5 mm ²
Protection class:	IP20
Housing:	Sturdy plastic housing PBT

Dimensions:	H 20 mm, Ø 44 mm
Weight:	approx. 28 g
Scope of delivery:	Device, operating instructions
Manufacturer:	SENECA S.r.l.

Products Order no.

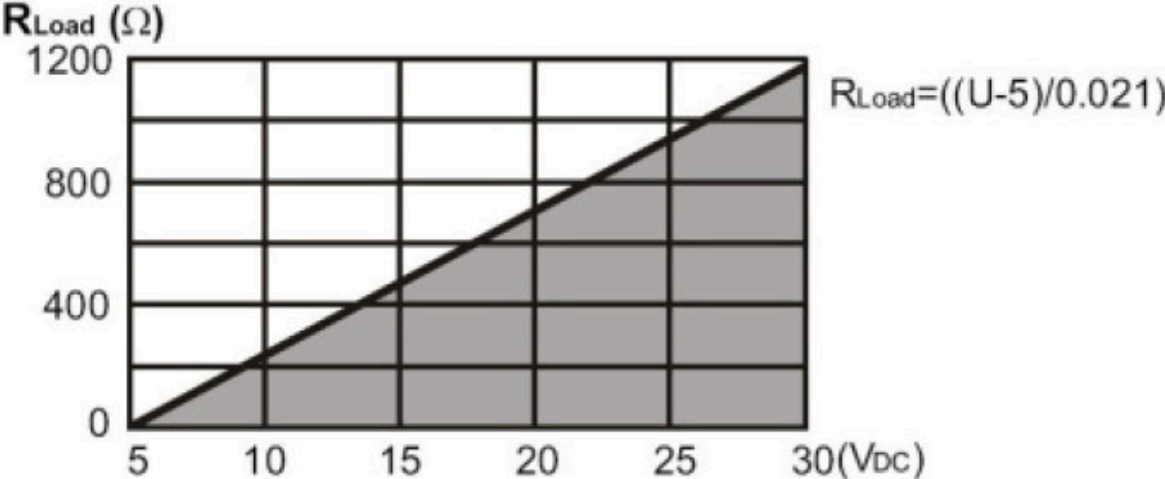
WT120RTD	2 wire - loop powered signal converter
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Accessories Order no.

WS117P00	WS117P Software / Cable Kit
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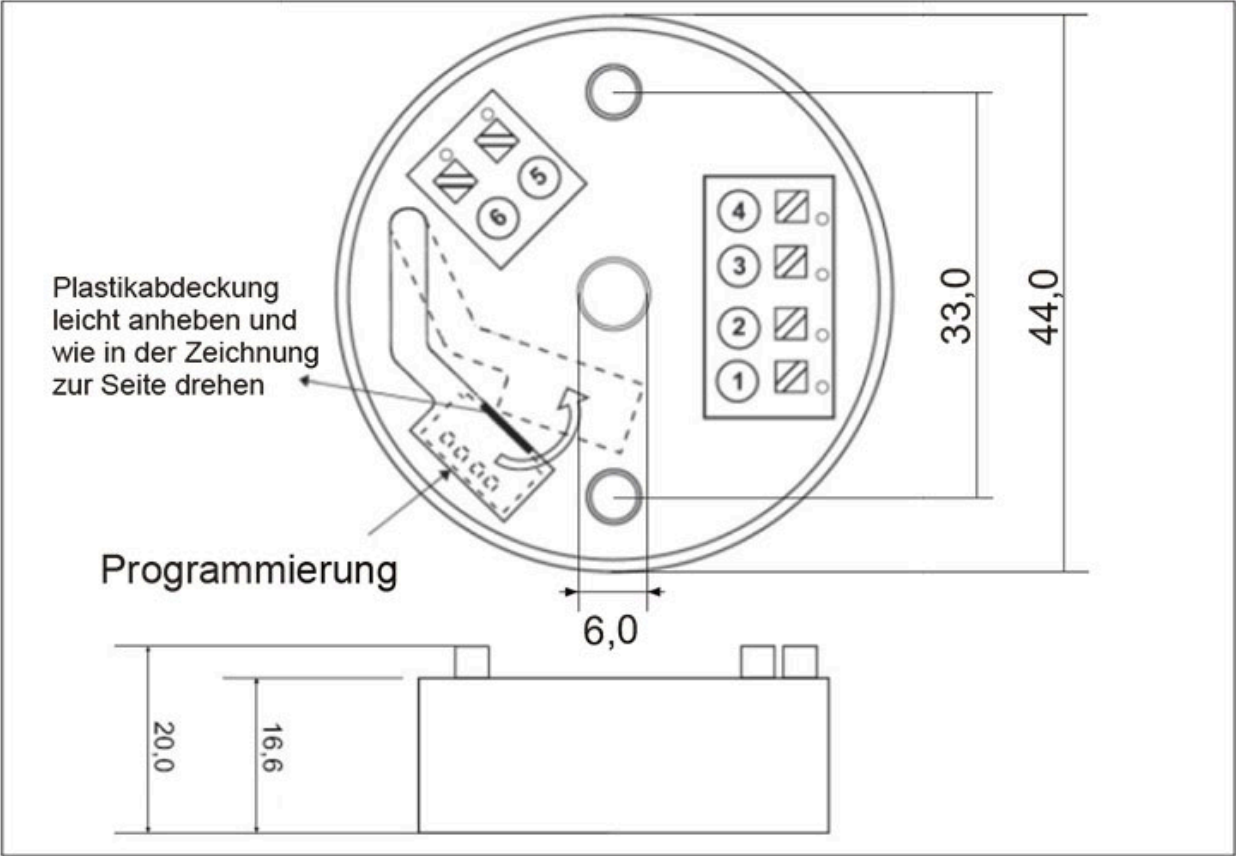
Drawings

Loop resistance



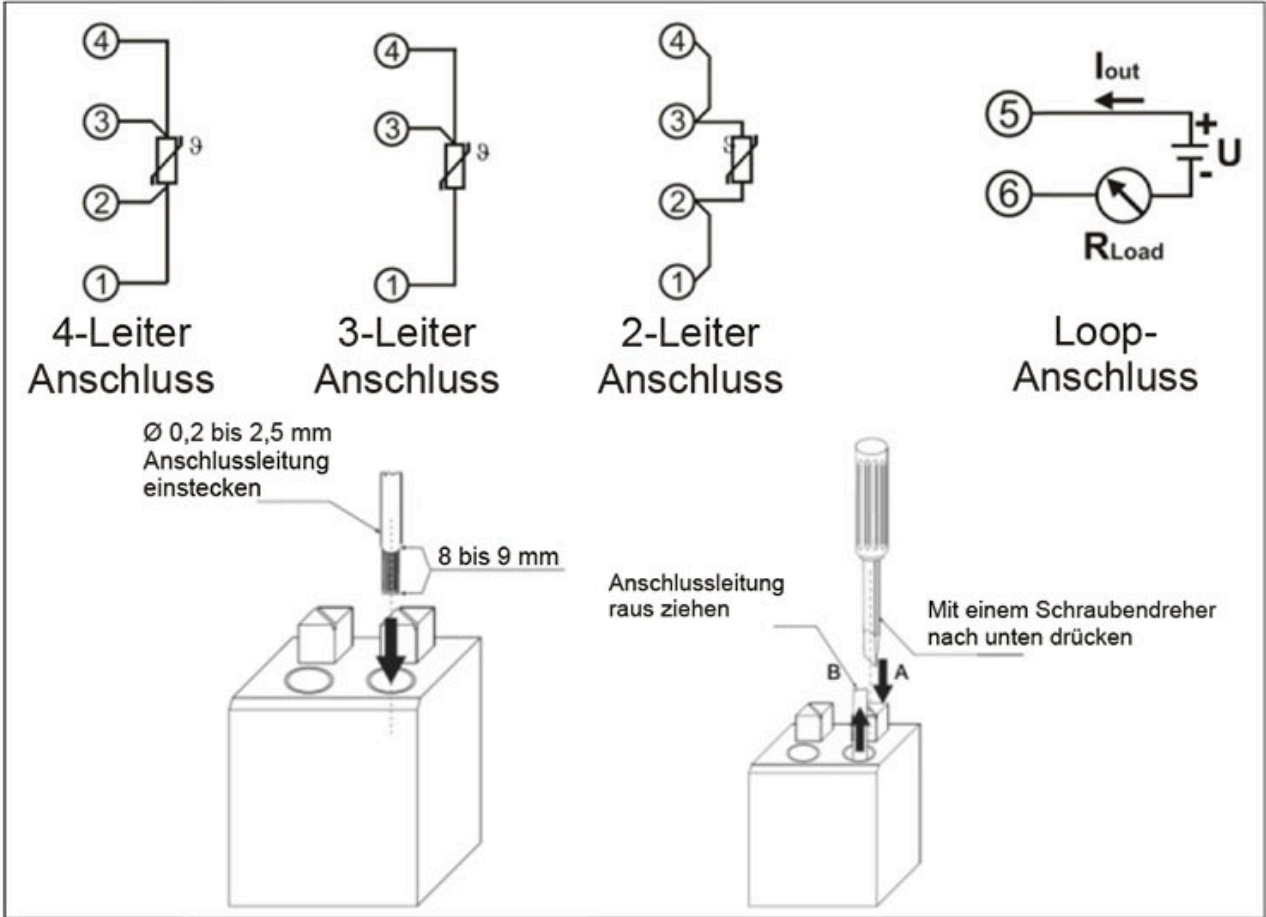
Drawings

Dimensions (mm)



Abmessungen in mm

Drawings
 Connection options



Anschlussmöglichkeiten

Drawings

Illustration Software

KT120 - Seneca s.r.l.

Datei Optionen Instrumente ?

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Vers. Firmware und SN:

Beschreibung:

EINGANG

Sensortyp:

Beginn Skala:

Ende Skala:

Anzahl Leiter:

Korrektur Messung 2 Leiter:

Filter:

AUSGANG

Filter: sec.

Invertierter Ausgang:

außerhalb der Skala 2.5%:

Ausgang niedrig bei Fehler:

TEST

Interner Fehler:

Span-Fehler:

Defekt Sensor offen:

Defekt Anschluss an Sensor:

Widerstandswert Sensor zu niedrig:

Widerstandswert Sensor zu hoch:

Messwert:

Ausgangswert:

Widerstandswert Leiter Anschluss zu hoch:

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