

2-wire - Loop Powered universal signal converter WT121



- Converts a Pt100/500/1000, Ni100, thermocouple or voltage signal into 4 to 20 mA, 20 to 4 mA
- 16 bit resolution (high accuracy)
- Supply from the current loop 7 VDC to 30 VDC
- Simple commissioning via software
- Quick installation thanks to spring terminals

<https://www.wachendorff-prozesstechnik.de/en/WT121>

Description

The WT121 signal converter converts the signals of a Pt100, Pt500, Pt1000, Ni100, thermocouple or a voltage signal into a 4 mA to 20 mA or 20 mA to 4 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

Entrance:	Pt100 from -200 °C to +650 °C in 2-, 3- or 4-wire technology; Ni100 from -60 °C to +250 °C in 2-, 3- or 4-wire technology; Pt500 from -200 °C to +650 °C in 2-, 3- or 4-wire technology; Pt1000 from -200 °C to +200 °C in 2-, 3- or 4-wire technology; Thermocouple type: S,T,J,N,K,E,R,B; Potentiometer: 500 Ohm to 1700 Ohm (up to 100 kOhm with external parallel resistor); Voltage: -150 mV to +150 mV; adjustable via software.
Resolution:	16 bit
Output:	4 mA to 20 mA or 20 mA to 4 mA, adjustable via software.
Supply:	7 VDC to 30 VDC from the current loop.
Accuracy:	+/-0.1 % of the measuring range or 0.1 °C.
Mains filter:	50 Hz / 60 Hz
Response time:	< 620 msec (with active mains filter)
Temperature coefficient:	< 100 ppm (30 ppm typical)
Sampling rate:	300 msec (with active mains filter)
Ambient conditions:	30 % to 90 % relative humidity at 40 °C Operation: -40 °C to +85 °C Storage: -40 °C to +105 °C
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
Connection type:	Spring terminals from 0.2 to 2.5 mm²
Protection class:	IP20
Housing:	Sturdy plastic housing PBT
Weight:	approx. 28 g
Scope of delivery:	Device, operating instructions
Manufacturer:	SENECA S.r.l.

Products Order no.

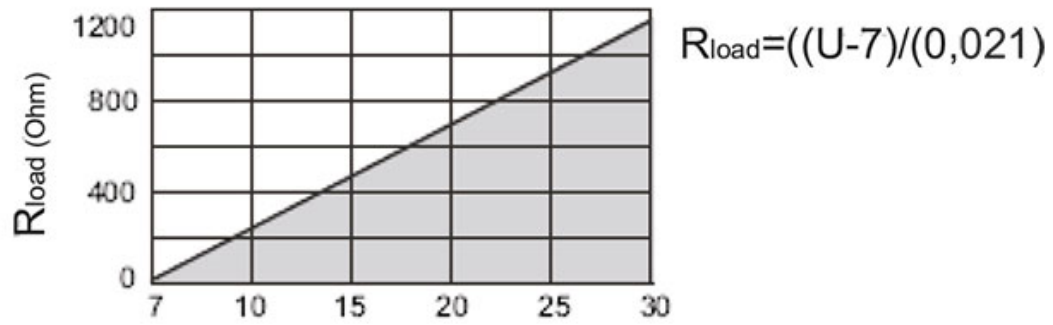
WT121000	2 wire loop powered universal signal converter
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Accessories Order no.

WS117P00	WS117P Software / Cable Kit
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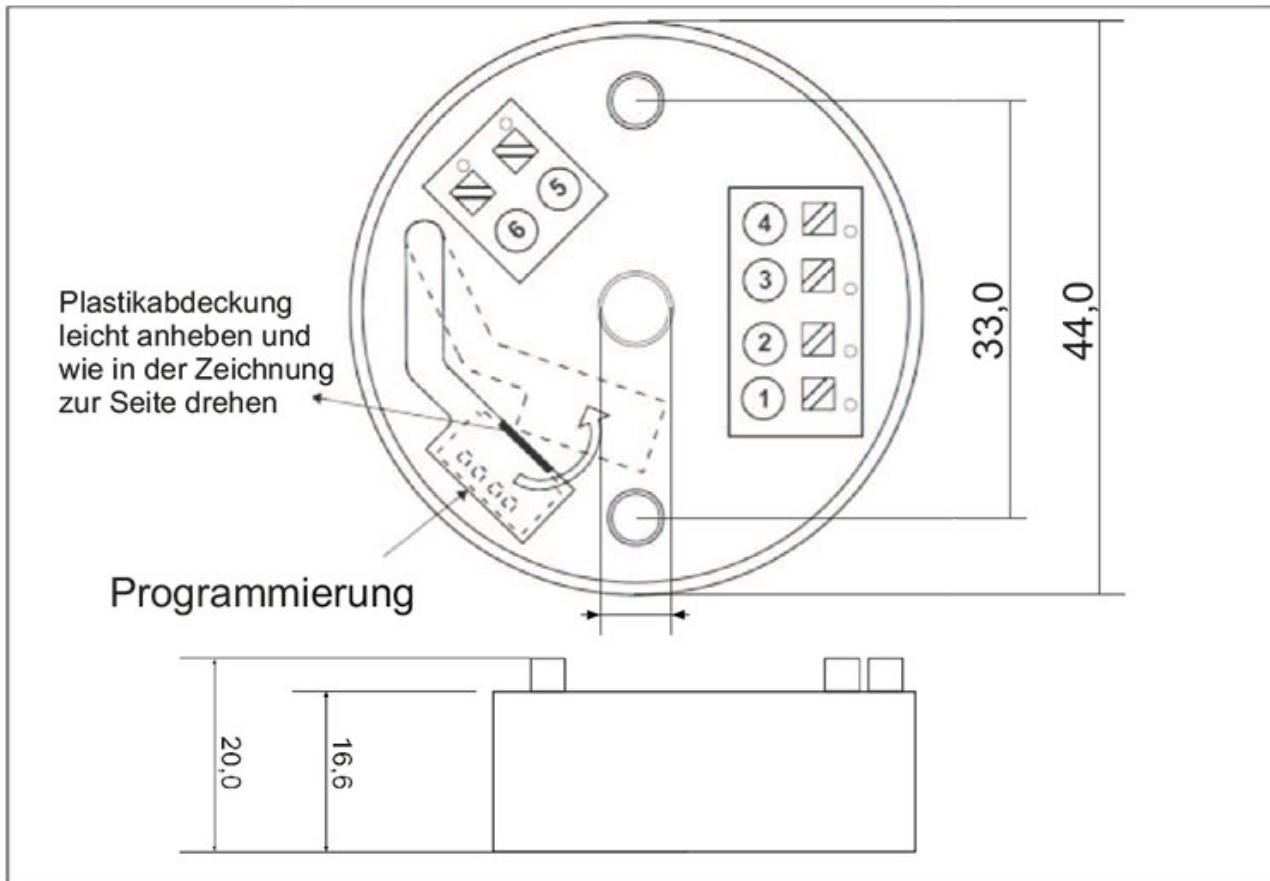
Drawings

Loop resistance



Drawings

Dimensions (mm)



Abmessungen in mm

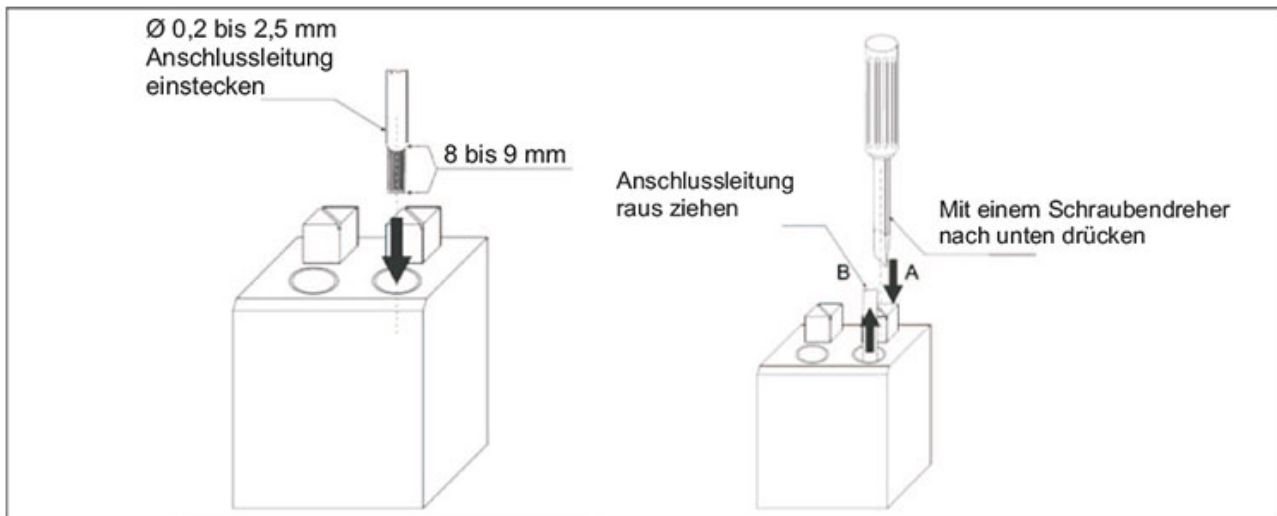
Drawings

Programming via PC



Drawings

Connection options



Anschlussmöglichkeiten



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