

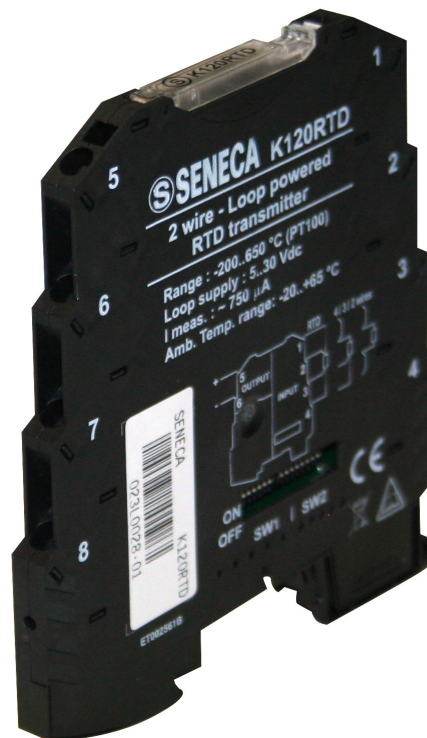
K-LINE

K120RTD

PT100, Ni100 / loop-powered converter

K-LINE

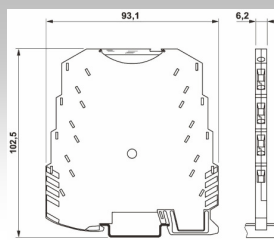
Temperature converters



- ▶ INPUT: PT100 (-200..+650°C), Ni100 (-60..+250°C)
lowest span 20°C
- ▶ OUTPUT: N.1 channel current 4..20 or 20..4 mA
- ▶ Max Consumption 24 mA
- ▶ Measurement conversion 16 bit
- ▶ Power supply range 5..30 Vdc (loop powered)
- ▶ Tiny dimensions (6,2 x 93,1 x 102,5 mm)
- ▶ Precision class 0.1% or 0,1°C
- ▶ Programming via dip-switch or software
(S117P, Configuration kit)

TECHNICAL DATA

K120RTD – PT100, Ni100 / loop-powered Converter



ORDER CODES

K120RTD PT100, Ni100 / loop-powered converter

Accessories (Programming)

- S117P**
- USB ↔ TTL-RS232 Serial Converter
 - USB cable
 - TTL cable
 - CD with drivers and KT120-SOFT

GENERAL FEATURES

Power supply	5...30 Vdc
Channels	N.1 input, N.1 output
Thermal derivation	< 100 ppm/K
Status indicators	Anomaly, alarm
Power supply on terminals	Yes
Hot swapping	Yes
Max Power consumption	from 21 mA to 24 Vdc
Lowest Consumption (no load)	7,5 mA
Galvanic isolation	No
A/D Conversion	16 bit
Rejection	50 – 60 Hz (programmable)

Filter	Supplementary to reading stabilization
DIP Switch	-Inputs signal setup -Zero and Span configuration -Output signal setup
Processing	Floating point 32 bit
Dimensions	6,2 x 93,1 x 102,5 mm (w x h x d)
Case, Weight, Color	PBT, 45 g, black
Operating temperature	-20...+65 °C
Connections	Plug-in screw clamp terminal blocks, wires up to 2.5 mm ²
IP Protection	IP 20
Approvals	CE, EN 61000-6-4, EN 61000-6-2
Special Functions	• Programmable Fault and shearing • Insertable Filter

INPUT

PT100 probe, (IEC 751 / EN 60751 – ITS90)
 Connection by 2, 3 or 4 wires
 Measurement Range: -200..650 °C
 Min span : 20 °C

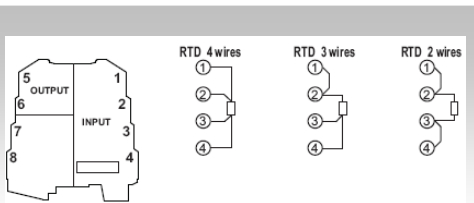
Ni100 probe
 Connection by 2, 3 or 4 wires
 Measurement Range: -60..250 °C
 Min span : 20 °C

OUTPUT

Current:
 Range: 4..20 / 20..4 mA
 Higher current for protection: 25 mA
 Higher load resistance: 500 Ohm

DIMENSIONS AND INSTALLATION

Input

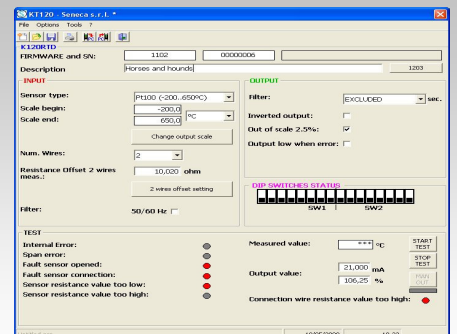


Programming

Dip-switches

MEASUREMENT FULL SCALE							
SW2	1	2	3	4	5	6	°C
							0
							5
							10
							15
							20
							25
							30
							35
							40
							45
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							620
							630
							640
							650

Software



Output & Power Supply

