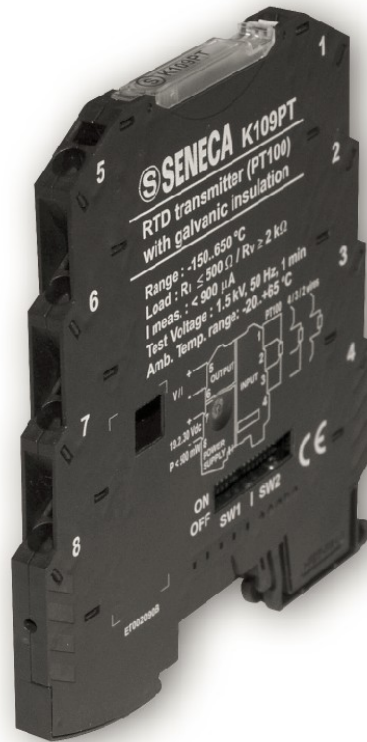


K-LINE

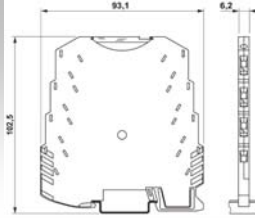
Temperature converters



- ▶ INPUT: PT100 at 2,3,4 wires with zero and span configurable by dip-switch, -200..+160 °C, lowest span 20°C
- ▶ OUTPUT: N.1 channel current 0/4..20, 20..4/0 mA or voltage 0..5/10, 10..0, 1..5 Vdc
- ▶ Galvanic isolation @ 3-way
- ▶ Spring-cage terminal block and/or DIN bus connection system
- ▶ Power bridging terminal - DIN rail bus connector
- ▶ Tiny dimensions (102,5 x 93,1 x 6,2 mm)
- ▶ Resolution @ 14 bit
- ▶ Precision class better than 0.1%

TECHNICAL DATA

K109PT-HPC – High precision PT100 / V-I Converter



ORDER CODES

K109PT-HPC	High precision PT100 converter
Accessories	
K-BUS	Expandable power supply connector
K-SUPPLY	Power Supply module with surge protection

GENERAL FEATURES

Power supply	19,2...30 Vdc
Channels	N.1 input N. 1 output
Thermal derivation	< 100 ppm/K
Accuracy	Error: 0,1% (max range) or (20 K / temp + 0.05) % (Measurement range)
Status indicators	Setting error Wrong connection Internal improper functioning
Galvanic Isolation	Power supply // input // output at 1500 Vac, digital
Hot swapping	Yes
Power consumption	500 mW
A/D Converter	14 bit
Current output protection	Approximately 25 mA
Security output	- 102.5% of full scale value, in case of over-range - 105% of full scale value in case of improper functioning

Humidity	30..90% a +40°C (not condensing)
Design	Terminal housing for mounting on 35 mm DIN 46277
DIP Switch	-Inputs signal setup -Output signal setup
Filter rejection	50 - 60 Hz (settable)
Dimensions	6,2 x 93,1 x 102,5 mm (w x h x d)
Processing	Floating point 32 bit
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
Standards	EN50081-2, EN50082-2, EN61010-1, EN60742

INPUT

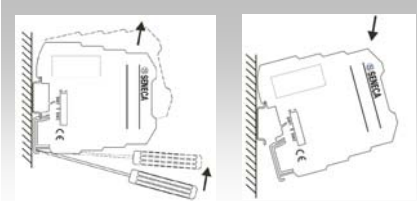
PT100 probe, EN 60751/A2 (ITS90)
 Connection by 2, 3 or 4 wires
 Current on sensor: < 900 uA
 Cable resistance: Max. 15 Ohm per wire
 Measurement Range: -200..160 °C
 Min span : 20°C

OUTPUT

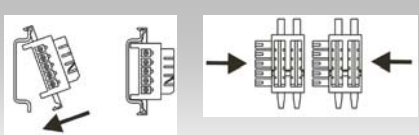
Current: 0..20 mA, 4..20 mA, 20..0 mA e 20..4 mA
 Higher load resistance: 500 Ohm
 Voltage: 0..5 Vdc, 1..5 Vdc, 0..10 Vdc and 10..0 Vdc
 Lower load resistance: 2 KOhm

DIMENSIONS AND INSTALLATION

Inserting / Extracting module on DIN guide



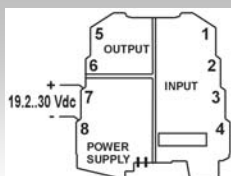
Expandable connector K-BUS



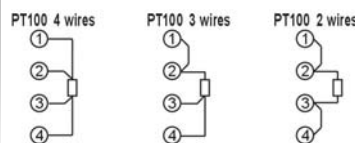
Cage clamp connection



Power supply



Input



Output

