



2-wire programmable transmitter

5334A

- TC input
- High measurement accuracy
- Galvanic isolation
- Programmable sensor error value
- For DIN form B sensor head mounting















Application

- Linearized temperature measurement with TC sensor.
- · Amplification of bipolar mV signals to a 4...20 mA signal, optionally linearized according to a defined linearization function.

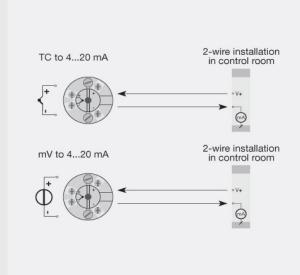
Technical characteristics

- · Within a few seconds the user can program PR5334A to measure temperatures within all TC ranges defined by the
- Cold junction compensation (CJC) with a built-in temperature
- · Continuous check of vital stored data for safety reasons.

Mounting / installation

· For DIN form B sensor head or DIN rail mounting with the PR fitting type 8421.

Connections



Order:

Туре	Ambient temperature	Galvanic isolation
5334A	-40°C+85°C : 3	1500 VAC : B

Environmental Conditions

Specifications range	-40°C to +85°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree (encl./terminal)	IP68 / IP00

Mechanical specifications

Dimensions	Ø 44 x 20.2 mm
Weight approx	50 g
Wire size	1 x 1.5 mm ² stranded wire
Screw terminal torque	0.4 Nm
Vibration	IEC 60068-2-6 : 2007
Vibration: 225 Hz	±1.6 mm
Vibration: 25100 Hz	±4 q

Common specifications

7.235 VDC
. 25 mW0.8 W
7.2 VDC
1.5 kVAC / 50 VAC
. 5 min.
Loop Link
Min. 60 dB
160 s
< 3.5 s
Better than 0.05% of selected
range
18 bit
16 bit
< 0.005% of span / VDC
< ±0.5% of span
< ±1% of span

Input specifications

input specifications	
Max. offset	50% of selected max. val
TC input: Thermocouple type	B, E, J, K, L, N, R, S, T, L W3, W5, LR
Cold junction compensation	
(CJC)	
Sensor error detection, TC	Yes
Sensor error current: When	
detecting / else	Nom. 33 µA / 0 µA
Voltage input: Measurement	
range	-12150 mV
Min. measurement range (span), voltage input	
Input resistance, voltage	
input	10 ΜΩ

Output specifications

Current output: Signal range	420 mA
Min. signal range	16 mA
Updating time	440 ms
Load resistance, current output	\leq (Vsupply - 7.2) / 0.023 [Ω]
Load stability, current output	≤0.01% of span / 100 Ω
Sensor error indication, current	
output	Programmable 3.523 mA
NAMUR NE 43 Upscale/Downscale	23 mA / 3.5 mA
*of span	= of the presently selected
	range

Approvals

EMC	EN 61326-1
ATEX 2004/108/EC	KEMA 10ATEX0002 X
IECEx	DEK 13.0035X
INMETRO	DEKRA 13.0001 X
CCOE	P337392/1
EAC TR-CU 020/2011	EN 61326-1