



2-wire programmable transmitter

6334B

- TC input
- High measurement accuracy
- Galvanic isolation
- Can be installed in Ex zone 0
- 1- or 2-channel version



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 PR6334B to measure temperatures within all TC ranges defined by the norms.
- Cold junction compensation (CJC) with a built-in temperature sensor.
- A limit can be programmed on the output signal.
- Continuous check of vital stored data for safety reasons.

Mounting / installation

- Mounted vertically or horizontally on a DIN rail. Using the 2-channel version up to 84 channels can be mounted per meter.

Applications

TC to 4...20 mA



2-wire installation
in control room



mV to 4...20 mA



2-wire installation
in control room



Order:

Type	Galvanic isolation	Channels
6334B	1500 VAC : 2	Single : A Double : B

Environmental Conditions

Operating temperature.....	-40°C to +85°C
Storage temperature.....	-40°C to +85°C
Calibration temperature.....	20...28°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP20

Mechanical specifications

Dimensions (HxWxD).....	109 x 23.5 x 104 mm
Weight (1 / 2 channels).....	145 / 185 g
DIN rail type.....	DIN EN 60715/35 mm
Wire size.....	0.13...2.08 mm ² AWG 26...14 stranded wire
Screw terminal torque.....	0.5 Nm

Common specifications**Supply**

Supply voltage.....	7.2...30 VDC
Internal power dissipation.....	0.17...0.8 W

Isolation voltage

Isolation voltage, test / working.....	1.5 kVAC / 50 VAC
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Response time

Response time (programmable).....	1...60 s
Voltage drop.....	7.2 VDC
Warm-up time.....	5 min.
Programming.....	Loop Link
Signal / noise ratio.....	Min. 60 dB
Accuracy.....	Better than 0.05% of selected range
EEPROM error check.....	< 3.5 s
Signal dynamics, input.....	18 bit
Signal dynamics, output.....	16 bit
Effect of supply voltage change.....	< 0.005% of span / VDC
EMC immunity influence.....	< ±0.5% of span
Extended EMC immunity: NAMUR NE21, A criterion, burst.....	< ±1% of span

Input specifications**Common input specifications**

Max. offset.....	50% of selected max. value
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TC input

Thermocouple type.....	B, E, J, K, L, N, R, S, T, U, W3, W5, LR
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Cold junction compensation

(CJC).....	< ±1.0°C
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Voltage input

Measurement range.....	-12...150 mV
Min. measurement range (span).....	5 mV
Input resistance.....	10 MΩ

Output specifications**Current output**

Signal range.....	4...20 mA
Min. signal range.....	16 mA
Load (@ current output).....	≤ (Vsupply - 7.2) / 0.023 [Ω]
Sensor error indication.....	Programmable 3.5...23 mA
NAMUR NE43 Upscale/Downscale.....	23 mA / 3.5 mA

Common output specifications

Updating time.....	440 ms
of span.....	= of the presently selected range

Observed authority requirements

EMC.....	2014/30/EU
RoHS.....	2011/65/EU

Approvals

ATEX.....	KEMA 06ATEX0115 X
IECEx.....	DEK 14.0047 X
EAC Ex.....	RU C-DK.HA65.B.00355/19