PERFORMANCE MADE SMARTER



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.

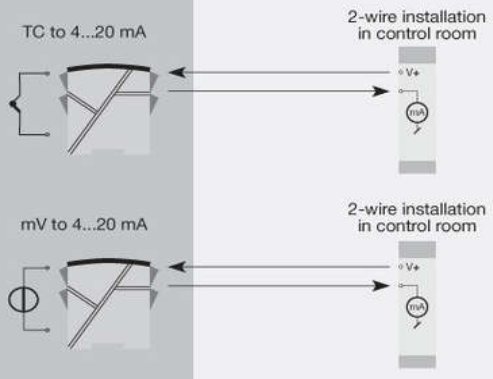
Technical characteristics

- 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



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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

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

TC input
Thermocouple type..... B, E, J, K, L, N, R, S, T, U, W3, W5, LR
Cold junction compensation (CJC)..... < ±1.0°C

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

Approvals

ATEX 2014/34/EU..... KEMA 06ATEX0115 X
IECEx..... DEK 14.0047 X
EAC Ex TR-CU 012/2011..... RU C-DK.GB08.V.00410