



88-01900136-5334A3B (order number)

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



Stock version

Input : thermocouple type K
 Range : 0...+600°C
 Output : 4...20mA

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

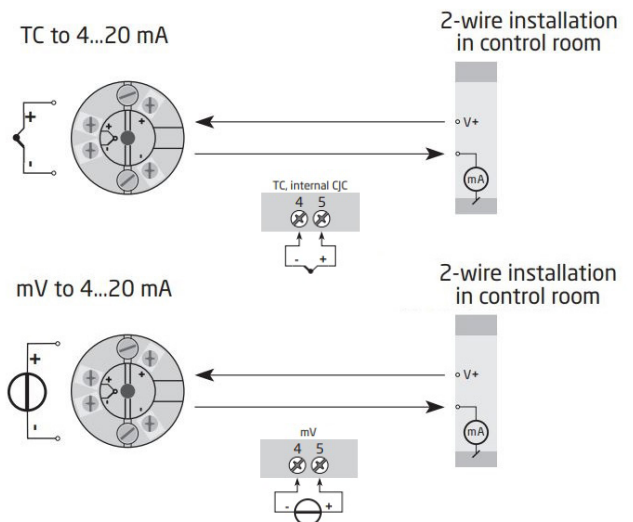
Technical characteristics

- Within a few seconds the user can program 5334A3B to measure temperatures within all TC ranges defined by the norms.
- Cold junction compensation (CJC) with a built-in temperature sensor
- Continuous check of vital stored data for safety reasons

Mounting / installation

- For DIN form B sensor head or DIN rail mounting with the special mounting clip.

Connections





Environmental Conditions

Operating temperature.....	-40°C to +85°C
Calibration temperature.....	20...28°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
2...25 Hz.....	±1.6 mm
25...100 Hz.....	±4 g

Common specifications

Supply

Supply voltage.....	7.2...35 VDC
Internal power dissipation.....	25 mW...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
EEPROM error check.....	< 3.5 s
Accuracy.....	Better than 0.05% of selected range
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
Cold junction compensation (CJC).....	< ±1.0°C
Sensor error detection.....	Yes
Sensor error current: When detecting / else.....	Nom. 33 µA / 0 µA

Voltage input

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

Ordering details

GÜNTHER temperature transmitter GT 5334A3B	88-01900136-5334A3B
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Accessories

Configuration interface (Loop Link)	88-02970001-5909
Metal clip for mounting the transmitter on a DIN rail	99-06879000-0000

Output specifications

Current output

Signal range.....	4...20 mA
Min. signal range.....	16 mA
Load (@ current output).....	≤ (V _{supply} - 7.2) / 0.023 [Ω]
Load stability.....	≤ 0.01% of span / 100 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
EAC.....	TR-CU 020/2011

Production

PR electronics A/S, Denmark

Approvals

INMETRO.....	DEKRA 16.0013 X
DNV-GL Marine.....	Stand. f. Certific. No. 2.4