



# 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.

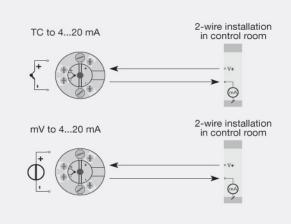
#### **Technical characteristics**

- · 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.

#### **Applications**



#### Order:

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

#### **Environmental Conditions**

Operating temperature	-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 <sup>2</sup> stranded wire
Screw terminal torque	0.4 Nm
Vibration	IEC 60068-2-6
225 Hz	±1.6 mm
25100 Hz	±4 g

#### **Common specifications**

Supply	
Supply voltage	7.235 VDC
Internal power dissipation	25 mW0.8 W

# Isolation voltage Isolation voltage, test /

working	1.5 kVAC / 50 VAC
Response time	
Response time (programmable)	160 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	
	range
Signal dynamics, input	18 bit
Signal dynamics, output	
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

C	:	
Common	mput	specifications

Max.	offset	 50% of	f selected	max.	value

#### TC input

	VV3, VV3, LK
Cold junction compensation (CJC)	< ±1.0°C
Sensor error detection	
Sensor error current: When	Nom 33 114 / 0 114

## Voltage input

Measurement range	-12150 mV
Min. measurement range (span)	5 mV
Input resistance	10 MΩ

# **Output specifications**

Current output Signal range	16 mA $\leq$ (Vsupply - 7.2) / 0.023 [ $\Omega$ ] $\leq$ 0.01% of span / 100 $\Omega$ Programmable 3.523 mA
Common output specifications Updating time	440 ms
of snan	= of the presently selected

range

## Observed authority requirements

EMC	2014/30/EU
FAC:	TR-CU 020/2011

#### **Approvals**

ATEX 2014/34/EU	KEMA 10ATEX0002 X
IECEx	DEK 13.0035X
INMETRO.	DEKRA 16.0013 X