

# 2-WIRE PROGRAMMABLE TRANSMITTER



- TC input
- High measurement accuracy
- Galvanic isolation
- Programmable sensor error value
- 1- or 2-channel version



**Application:**

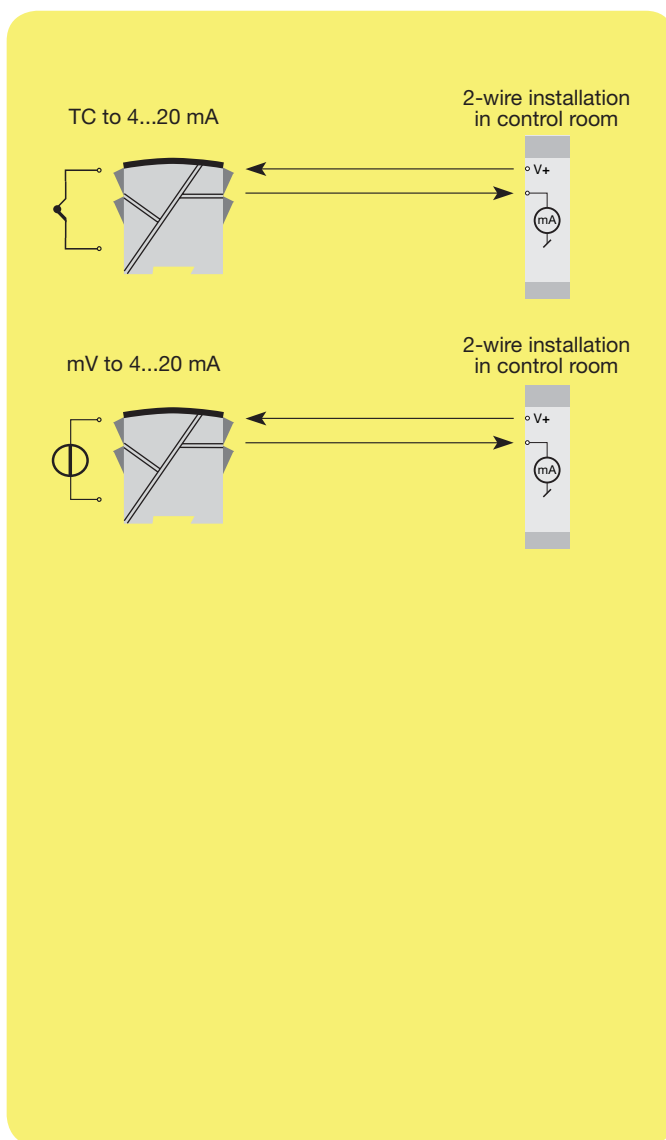
- Linearised temperature measurement with TC sensor.
- Amplification of bipolar mV signals to a 4...20 mA signal, optionally linearised according to a defined linearisation function.

**Technical characteristics:**

- Within a few seconds the user can program PR6334A to measure temperatures within all TC ranges defined by the norms.
- Cold junction compensation (CJC) with a mounted CJC connector.
- A limit can be programmed on the output signal.
- Continuous check of vital stored data for safety reasons.

**Mounting / installation:**

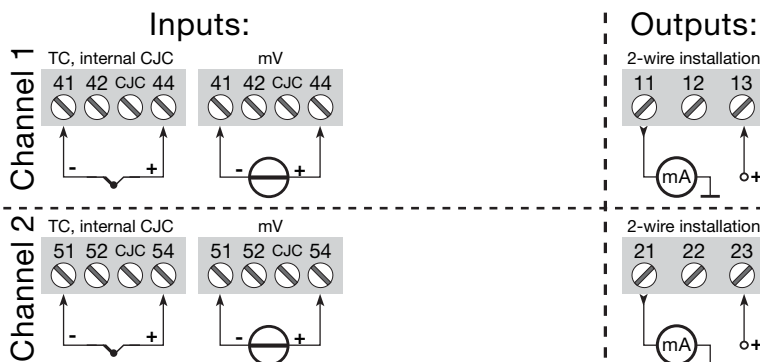
- Mounted vertically or horizontally on a DIN rail. Using the 2-channel version up to 84 channels can be mounted per metre.



Order: 6334A

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

**Connections:**



**Electrical specifications:**

**Specifications range:**

-40°C to +60°C

**Common specifications:**

- Supply voltage, DC ..... 7.2...35 VDC
- Internal consumption..... 0.17...0.8 W
- Voltage drop ..... 7.2 VDC
- Isolation voltage, test / operation..... 1.5 kVAC / 50 VAC
- Isolation voltage, ch. 1 / ch. 2 ..... 3.75 kVAC
- Warm-up time..... 5 min.
- Communications interface ..... Loop Link
- Signal / noise ratio ..... Min. 60 dB
- Response time (programmable) ..... 1...60 s
- EEPROM error check..... < 3.5 s
- Signal dynamics, input ..... 18 bit
- Signal dynamics, output..... 16 bit
- Calibration temperature..... 20...28°C
- Accuracy, the greater of general and basic values:

General values		
Input type	Absolute accuracy	Temperature coefficient
All	≤ ±0.05% of span	≤ ±0.01% of span / °C

Basic values		
Input type	Basic accuracy	Temperature coefficient
Volt	≤ ±10 µV	≤ ±1 µV/°C
TC type:		
E, J, K, L, N, T, U	≤ ±1°C	≤ ±0.05°C/°C
TC type: B, R, S,		
W3, W5, LR	≤ ±2°C	≤ ±0.2°C/°C

EMC immunity influence .....	< ±0.5% of span
Extended EMC immunity:	
NAMUR NE 21, A criterion, burst.....	< ±1% of span

- Effect of supply voltage variation ..... < 0.005% of span / VDC
- Max. wire size..... 1 x 1.5 mm<sup>2</sup> stranded wire
- Humidity ..... < 95% RH (non-cond.)
- Dimensions (H x W x D)..... 109 x 23.5 x 104 mm
- Protection degree..... IP20
- Weight (1 / 2 channels)..... 145 / 185 g

**Electrical specifications, input:**

Max. offset..... 50% of selec. max. value

**TC input:**

Type	Min. temperature	Max. temperature	Min. span	Standard
B	+400°C	+1820°C	200°C	IEC584
E	-100°C	+1000°C	50°C	IEC584
J	-100°C	+1200°C	50°C	IEC584
K	-180°C	+1372°C	50°C	IEC584
L	-100°C	+900°C	50°C	DIN 43710
N	-180°C	+1300°C	100°C	IEC584
R	-50°C	+1760°C	200°C	IEC584
S	-50°C	+1760°C	200°C	IEC584
T	-200°C	+400°C	50°C	IEC584
U	-200°C	+600°C	75°C	DIN 43710
W3	0°C	+2300°C	200°C	ASTM E988-90
W5	0°C	+2300°C	200°C	ASTM E988-90
LR	-200°C	+800°C	50°C	GOST 3044-84

Cold junction compensation ..... < ±1.0°C

**Voltage input:**

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

**Current output:**

- Signal range ..... 4...20 mA
- Min. signal range ..... 16 mA
- Updating time..... 440 ms
- Load resistance..... ≤ (Vsupply- 7.2) / 0.023 [Ω]

**Sensor error detection:**

- Programmable..... 3.5...23 mA
- NAMUR NE43 Upscale ..... 23 mA
- NAMUR NE43 Downscale..... 3.5 mA

**GOST R approval:**

VNIIM, Cert. No. .... See homepage

**Observed authority requirements: Standard:**

EMC 2004/108/EC ..... EN 61326-1

**Of span** = Of the presently selected range