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.
Environmental Conditions
- Operating temperature: -40°C to +85°C
- Storage temperature: -40°C to +85°C
- Calibration temperature: 20°C to 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 mm² 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
  - 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
  - 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