



2-wire room temperature transmitter

2914

- Room temperature measurement
- Complete with sensor and transmitter
- -4...20 mA output in 2-wire connection
- Easy mounting
- Measurement range 0...70°C
- Supply 8...35 VDC



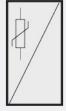
Application

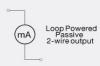
- Electronic temperature measurement in for instance control rooms, offices, heating plants, factories, living rooms, and similar dry rooms.
- Suitable as a transmitter for controllers, trip amplifiers, displays, or superior SCADA systems.

Technical characteristics

- A precision Pt100 sensor with a small mass is mounted on the transmitter input thereby achieving a fast response time.
- The 2-wire output signal of 4...20 mA is proportional and linear to the temperature value that influences the built-in sensor.
- · A reversed output signal of 20...4 mA may be ordered.
- A number of different sensor error detection options may be ordered.
- · Protected against polarity reversal.
- The bottom of the cabinet can be attached to a wall by two screws
- · Visible or hidden cable access.

Connections





Order:

Type	Measurement range		Output		Sensor error value	
2914	050°C	: A	Special	: 0	To max., ≥ 23 mA	: A
	070°C	: В	420 mA	: 2	To min., ≤ 3.8 mA	: В
	Special	: X	204 mA	: 9	Special	: X

Environmental Conditions

Specifications range	0°C to +70°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP30

Mechanical specifications

Dimensions (HxWxD)	70 x 121 x 25 mm
Weight approx	95 g
Wire size	1 x 1.5 mm <sup<2< sup=""></sup<2<>

Common specifications

Supply voltage	8.035 VDC
Internal consumption	25 mW0.8 W
Voltage drop	8.0 VDC
Warm-up time	. 5 min.
Signal / noise ratio	Min. 60 dB
Response time	10 s (@ 0.5 m/s)
Signal dynamics, input	17 bit
Signal dynamics, output	16 bit
Effect of supply voltage change	< 0.005% of span / VDC
Temperature coefficient	< ±0.01% of span / °C
Linearity error	< 0.1% of span
EMC immunity influence	< ±0.5%

Input specifications

Max. offset	50% of max.°C
Measurement range	070°C
Min. measurement range	25°C (span)
Sensor current, RTD	> 0.2 mA, < 0.4 mA

Output specifications

Max. offset	20% of max. mA
Current output: Signal range	420 mA
Min. signal range	16 mA
Updating time	135 ms
Load resistance, current output	\leq (Vsupply - 8) / 0.023 [Ω]
Load stability, current output	≤0.01% of span/100 Ω
NAMUR NE 43 Upscale/Downscale	23 mA / 3.5 mA
*of span	= of the presently selected
	range

Approvals

EMC	EN 61326-1
GOST R	Yes