

Temperature Transmitter

Product features

- Pt100 input
- 3 or 4 wire measurement
- -200-600°C measurement ranges
- Two wire 4-20 mA transmitter
- 0.2°C accuracy
- 875 uA measuring current
- TS-35 rail mounting, 12.5 mm width



Type Designation

DT1000 I4		Range [°C]*						
		50	100	200	400	600	800	
Starting Point [°C]*	-200	-200...-150	-200...-100	-200...0	-200...200	-200...400	-200...600	
	-100	-100...-50	-100...0	-100...100	-100...300	-100...500	--	
	0	0...50	0...100	0...200	0...400	0...600	--	
	100	100...150	100...200	100...300	100...500	--	--	
	200	200...250	200...300	200...400	200...600	--	--	
	300	300...350	300...400	300...500	--	--	--	
	400	400...450	400...500	400...600	--	--	--	
	500	500...550	500...600	--	--	--	--	

* Other ranges for customer request also available.

The **DT1000 I4 Temperature Transmitter** provide a 4-20 mA signal in proportional to the Pt100 sensor element connected to their input. The device is loop-powered from 4-20 mA signal.

Sensor element can be connect in 3 or 4 wire measuring mode.

The temperature ranges are fix configured, see on the above table. Different ranges for customer request also available.

Input and output is not isolated.

Input parameters:

Input signal:	Pt 100 sensor
Measurement range:	see the table on the previous page
Connection:	3 or 4 wire
Measuring current:	875 uA (at 100 ohm sensor resistance)
Power dissipation on Pt100:	0.25 mW (max.)
Wire resistance:	100 ohm (max)

Output parameters:

Output signal:	4-20 mA
Overloading:	22 mA
Error:	<0.2 °C + 10 uA (23 °C ± 2 °C) <0.6 °C + 50 uA (-20 °C - 60 °C)
Linearizing error:	0.1 % (-100- 600 °C), 0,15 % (-200- -100 °C)
Supply-voltage effect:	practically zero

Supply voltage:

Ambient conditions:

Operating temperature range:	0-50°C (-20 - 50°C for customer request)
Relative humidity	90% (max., non-condensing)
Place of installation:	cabinet

Electromagnetic compatibility (EMC)

accordance with the standard EN 61326:2000:

Immunity:	-B- criterion
Noise emission:	-A- class

General data:

Housing:	terminal assembly box, rail mounting on TS-35 rail, material: polyamide PA6.6
Connection:	screw terminal
Connection cable:	0.25-2.5 mm ²
Dimensions:	12.5 x 99 x 115 mm (W x H x D)
Weight:	0.15 kg
Protection:	IP 20

Detailed information see in operating instructions. The Manufacturer maintains the right to change the technical data!