

Resistance / Potentiometer Transmitter

Product features

- Resistance / potentiometer inputs
- 3 or 4 wire measurement
- 0-10000 ohm measurement ranges
- Two wire 4-20 mA transmitter
- 0.05% accuracy
- TS-35 rail mounting, 12.5 mm width



Type designation

DT1005 I4



Range [ohm]*				
0-50	0-100	0-120	0-130	0-150
0-180	0-200	0-250	0-270	0-300
0-470	0-500	0-700	0-800	0-1000
0-2000	0-5000	0-10000	--	--

* Other ranges for customer request also available.

The **DT1005 I4 Resistance / Potentiometer Transmitter** provide a 4-20 mA signal in proportional to the resistance / potentiometer connected to their input. The device is loop-powered from 4-20 mA signal. The resistance / potentiometer can be connect in 3 or 4 wire measuring mode. The input ranges are fix configured, see on the above table. Different ranges for customer request also available. Input and output is not isolated.

Safety data:

The connection terminals of the supply voltages are isolated from each other, the isolation is in compliance with the standard EN 61010-1, taking into consideration the following:

Pollution level:	2
Measurement category:	II

Input parameters:

Input signal:	resistance / potentiometer
Measurement range:	see the table on the previous page
Connection:	3 or 4 wire
Measuring current:	depends on the measuring range
Wire resistance:	100 ohm (max.)

Output parameters:

Output signal:	4-20 mA
Overloading:	22 mA
Error:	< 0.05% + 10 µA (Tk: 23 °C ±2 °C) < 0.25% + 50 µA (Tk: 0 °C - 60 °C)
Supply-voltage effect:	practically zero

Power supply:

Supply voltage:	10-30 VDC loop-powered
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Ambient conditions:

Operating temperature range:	0-60 °C (-20 - +60 °C for customer request)
Relative humidity:	90% (max., non-condensing)
Place of installation:	cabinet

**Electromagnetic compatibility (EMC):
accordance with the standard EN 61326**

Immunity:	industrial area
Noise emission:	Group 1, Class B

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 (max.)
Dimensions:	12.5 × 99 × 115 mm (width × height × depth)
Weight:	0.15 kg
Protection:	IP 20

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