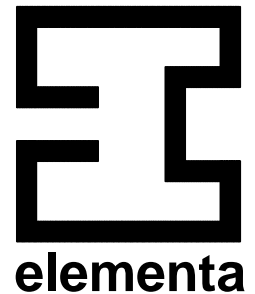


Pt 100 / Pt 500 / Pt 1000 - SIMULATOR ISP 5000

"high resolution"



Scale 1 : 1,5



Figure :
Housing II

Features :

- * direct selectable of temperature values according to DIN IEC 751
- * resolution 1 °C
- * high reliability
- * compact construction using INTEGRATION TECHNIQUES
- * **Option : calibration certificate**

Features

Application :

- * In industrial, heating, ventilation, medical technology and refrigeration industries.
- * **for simulation** of Pt - thermometers
- * **to calibrate and regulate** measurement, control and recording instruments
- * **for the control** of installed measurement cables

Application

Design :

Pt 100	Pt 500	Pt 1000	Temperature ranges
ISP 5013-1	ISP 5053-1	ISP 5103-1	(- 199°C.... + 39°C)
ISP 5013-2	ISP 5053-2	ISP 5103-2	(- 49°C.... + 1 89°C)
ISP 5013-3	ISP 5053-3	ISP 5103-3	(+ 190°C.... + 429 °C)
ISP 5013-4	ISP 5053-4	ISP 5103-4	(+ 430°C.... + 669 °C)

Data

maximum deviation :

	class I	class II
Für t < 0°C	$\pm (0,0015 \cdot t (°C) + 0,2 K)$	$\pm (0,0015 \cdot t (°C) + 0,35 K)$
Für t ≥ 0°C	$\pm (0,002 \cdot t (°C) + 0,2 K)$	$\pm (0,003 \cdot t (°C) + 0,35 K)$
Für t ≥ 190°C	$\pm (0,001 \cdot t (°C) + 0,25 K)$	$\pm (0,0015 \cdot t (°C) + 0,4 K)$

The typical deviations of the simulators are in the order of 50% of the given values.

Data	Resolution:	1 °C
	Conduction simulator ISL:	0 /2 /5 /10 /20 Ω
	Temperature coefficient:	± 50 ppm/K
	Load:	max. 0,3 W
	Ambient temperature:	- 20°C.... <u>23°C</u> ...70°C
Construction	Rotary switch:	shortcircuit switch method, gold plated hard silver contacts set level in ceramic
	Resistance:	thin film technique integrated at the switch level
	Connections:	screw and plug sockets 4 mmØ. Connections in 3 and 4 conductor technique is possible.
	Housing:	enamelled sheet steel housing, completely electromagnetically screened
	Dimensions / Weight:	housing I : 75 x 55 x 31 mm / about 150g housing II : 116 x 50 x 28 mm / about 250g
Delivery form	ISP 5000	The following choices are available : housing I : one range switch pair housing II : one range switch pair and conduction simulator
	<u>Ordering example:</u>	1 unit ISP 5013-2, housing II, tol.: class. I, with calibration certificate
	Switch:	Individual pairs of ranges as well as the conductor simulator can be delivered for separate installation in equipment. Special designs of tolerances and temperature steps on request.

For resolution up to 0,1°C we recommend our resistance decade IWD 2000 or our ISP 6000.

Calibration laboratory	Option	Calibration certificate: The calibration is done with measurement equipment which is several times more accurate than the calibrated object. The measurement equipment is traceable to the national standards at the PTB (Physical Technical Federal Institute). With this calibration certificate you prove the required ISO 9000 traceability to national standards.

Delivery program	HYBRIDS	Thick-film, Thin-film and SMD technology
	DECADES SIMULATORS	Resistors, capacitors, voltages, currents, current drains, attenuation Pt-100, Pt-500, Pt-1000, Ni 100, thermoelements, pH-values, conductivity, measurement transducers, strain gauges
	CALIBRATORS SWITCHES	for current loops and multimeters rotary switch/resistance combinations, attenuation components and resistance indicators, also with binary control.

We reserve the right to carry out modifications, especially those which improve the product. All correspondence occurs without reference to the Patent position.