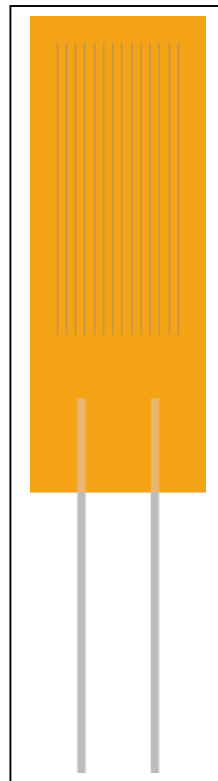

Surface Resistance Thermometer

2.1252.00.000



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1 General / Construction of Instrument

The surface-resistance thermometer serves for the measurement of the temperature at planar or curved surfaces. Due to its very thin construction it is very flexible, so that it can be applied between bedded materials or on surfaces, as well. Thanks to its very small mass it takes very quickly the medium temperature to be measured.

The platinum measurement winding is embedded between two 0,05 mm thick polyimide (kapton)-foils .

2 Technical Data

Measuring range	-80 ... +180 °C	
Measuring element	Pt 100 acc. to IEC 751	
Accuracy	± 0,5°C	
Dimensions	50 x 21 0,2 mm	
Weight	0,002 kg	

Table: Resistance value in ohm from 1 to 1°C for Pt 100

°C	0	1	2	3	4	5	6	7	8	9
- 30	88,22	87,83	87,43	87,04	86,64	86,25	85,85	85,46	85,06	84,67
- 20	92,16	91,77	91,37	90,98	90,59	90,19	89,80	89,40	89,01	88,62
- 10	96,09	95,69	95,30	94,91	94,52	94,12	93,73	93,34	92,95	92,55
- 0	100,00	99,61	99,22	98,83	98,44	98,04	97,65	97,26	96,87	96,48

+ 0	100,00	100,39	100,78	101,17	101,56	101,95	102,34	102,73	103,12	103,51
+ 10	103,90	104,29	104,68	105,07	105,46	105,85	106,24	106,63	107,02	107,40
+ 20	107,79	108,18	108,57	108,96	109,35	109,73	110,12	110,51	110,90	111,28
+ 30	111,67	112,06	112,45	112,83	113,22	113,61	113,99	114,38	114,77	115,15
+ 40	115,54	115,93	116,31	116,70	117,08	117,47	117,85	118,24	118,62	119,01
+ 50	119,40	119,78	120,16	120,55	120,93	121,32	121,70	122,09	122,47	122,86
+ 60	123,24	123,62	124,01	124,39	124,77	125,16	125,54	125,92	126,31	126,69
+ 70	127,07	127,45	127,84	128,22	128,60	128,98	129,37	129,75	130,13	130,51
+ 80	130,89	131,27	131,66	132,04	132,42	132,80	133,18	133,56	133,94	134,32

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