NENUTEC®

INNOVATIVE MEMBER OF SWISTEC

SA – room sensor

For applications in ventilation and air conditioning systems



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

SA SERIES

APPLICATION

Room sensor for room temperature measurement.

KEY FEATURES

The SA series employs different types of sensors designed for use with regulators from different manufacturers.

- Wall-mounted type
- Different types of temperature sensors available.
- Compact and modern design.

TECHNICAL SPECIFICATION

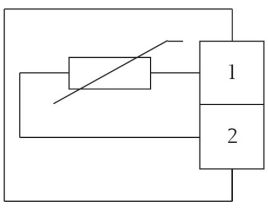
Range	0...+50°C
Mounting:	wall
Protection:	IP30
Dimensions:	86 x 86 x 30 mm

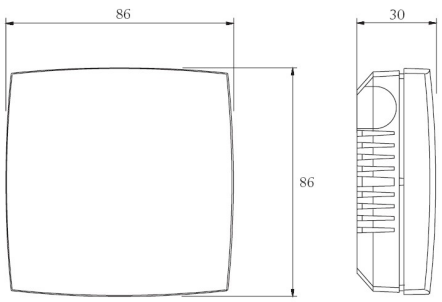
Type	Sensor	Compatible with controllers
SA-PT100	PT100, 100 Ohm/0°C	
SA-PT1000	PT1000, 1000 Ohm/0°C	
SA-NTC1.8	NTC 1.8, 1800 Ohm/25°C	Tac
SA-NTC2.2	NTC 2.2k3A1, 2252 Ohm/25°C	Johnson Controls
SA-NTC10-01	NTC 10k3A1, 10 kOhm/25°C	Aquatrol - Johnson Controls - Satchwell - Trend - Cylon - Honeywell
SA-NTC10-02	NTC 10k, 10 kOhm/25°C	Carel - Evco - Eliwell - AB Industrietechnik
SA-NTC10-03	NTC 10k4A1, 10 kOhm/25°C	Andover - Delta Controls - Siebe - York
SA-NTC20	NTC 20k6A1, 20 kOhm/25°C	Honeywell
SA-NI1000-01	Ni1000, 1000 Ohm/0°C	Siemens - Landis & Staefa
SA-NI1000-02	Ni1000, 1000 Ohm/0°C	Sauter

SA-NTC15... sensors are only suitable for use with the following devices AB Industrietechnik: electric heating controllers CTR... series and room sensor CA1

Type	Sensor	Range	Compatible with controllers
SA-NTC15-01	NTC 15k 15 kOhm/0°C	0...30 °C	Regin - AB Industrietechnik
SA-NTC15-03	NTC 15k, 15 kOhm/20°C	20.-50°C	Regin - AB Industrietechnik
SA-NTC15-04	NTC 15k, 15 kOhm/0°C	0...40 °C	Regin - AB Industrietechnik

WIRING AND DIMENSIONS (mm)





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SENSOR CHARACTERISTICS

	PT100	PT1000	NTC 1.8K	NTC 2.2K	NTC 10K-01	NTC 10K-02	NTC 10K-03	NTC 15K-01	NTC 15K-02	NTC 15K-03	NTC 15K-04	NTC 20K	NI 1000-01	NI 1000-02
Compatible with controllers			Tac	Johnson Controls	Aquatrol - Johnson Controls -Satchwell - Trend - Cylon - Honeywell	Carel - Evco - Eliwell -AB Industrietechnik	Andover - Delta Controls -Siebe - York	Regin - AB Industrietechnik	Regin - AB Industrietechnik	Regin - AB Industrietechnik	Regin - AB Industrietechnik	Honeywell	Siemens - Landis & Staefa	Sauter
Temp. °C	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω
150	157.3	1573												
140	153.6	1536	71	53								351	1737	1909
130	149.8	1498	87	68								459	1675	1833
120	146.1	1461	110	90	388		482					609	1615	1760
110	142.3	1423	139	115	510	767	624					818	1557	1688
100	138.5	1385	178	153	678	973	817					1114	1500	1618
90	134.7	1347	230	207	916	1266	1084					1541	1444	1549
80	130.9	1309	303	283	1256	1668	1458					2166	1390	1483
70	127.1	1271	403	395	1752	2228	1990					3099	1337	1417
65	125.2	1252	468	469	2082	2588	2339					3732	1311	1385
60	123.2	1232	545	560	2467	3020	2760		10000			4517	1285	1353
55	121.3	1213	638	673	2985	3536	3271					5494	1260	1322
50	119.4	1194	750	811	3601	4160	3893		10830	10000		6718	1235	1291
45	117.5	1175	885	984	4367	4911	4656			10830		8259	1210	1260
40	115.5	1155	1049	1200	5325	5827	5594		11670	11670	10000	10211	1186	1230
35	113.6	1136	1250	1471	6530	6940	6754			12500	10625	12698	1162	1200
30	111.7	1117	1496	1814	8056	8313	8196	10000	12500	13330	11250	15887	1138	1171
29	111.3	1113	1552	1893	8408	8622	8525	10170				16628	1132	1165
28	111.0	1110	1610	1977	8777	8944	8869	10330				17407	1128	1159
27	110.5	1105	1671	2064	9165	9281	9229	10500				18228	1123	1153
26	110.1	1101	1734	2156	9572	9632	9606	10670				19092	1119	1147
25	109.7	1097	**1800**	**2252**	**10000**	**10000**	**10000**	**10830**		14170	11875	**20000**	1114	1141
24	109.3	1093	1869	2353	10450	10380	10413	11000				20962	1109	1136
23	109.0	1090	1941	2458	10923	10780	10845	11170				21973	1105	1130
22	108.6	1086	2017	2572	11420	11200	11297	11330				23039	1100	1124
21	108.2	1082	2095	2689	11943	11630	11771	11500				24164	1095	1118
20	107.8	1078	2177	2813	12493	12080	12268	11670	13330	15000	12500	25350	1091	1112
19	107.4	1074			13073	12560	12788	11830				26600	1086	1107
18	107.0	1070			13662	13060	13334	12000				27920	1081	1101
17	106.6	1066			14324	13580	1306	12170				29320	1077	1095
16	106.2	1062			15001	14120	14506	12330				30790	1072	1089
15	105.9	1059	2649	3538	15714	14690	15136	12500			13125	32346	1068	1084
14	105.5	1055			16465	15280	15797	12370					1063	1078
13	105.1	1051			17257	15800	16490	12830					1058	1072
12	104.7	1047			18092	16560	17219	13000					1054	1067
11	104.3	1043			18973	17240	17983	13170					1049	1061
10	103.9	1039	3241	4482	19903	17960	18787	13330	14170		13750	41567	1045	1056
9	103.5	1035			20885	18700	19631	13500					1040	1050
8	103.1	1031			21921	19480	20518	13670					1036	1044
7	102.7	1027			23016	20300	21450	13830					1031	1039
6	102.3	1023			24172	21150	22431	14000					1027	1033
5	101.9	1019	3989	5718	25395	22050	23462	14170			14375	53812	1022	1028
4	101.6	1016			26787	23000	24547	14330				56720	1018	1022
3	101.2	1012			28054	23990	25689	14500				59790	1013	1016
2	100.8	1008			29500	25030	26891	14670				63060	1009	1011
1	100.4	1004			31031	26130	28157	14830				66520	1004	1005
0	**100.0**	**1000**	4940	7353	32651	27280	29490	15000	15000		15000	70203	**1000**	**1000**
-5	98.0	980	6159	9533	42317	33900	37316					92322	978	973
-10	96.1	961	7730	12460	55304	42470	47549					122431	956	946
-15	94.1	941	9771	16428	72911	53410	61031					163777	935	919
-20	92.2	922	12443	21860	97006	67770	78930					221088	914	893
-25	90.2	902	15969	29398	130306	86430	102889					301297	893	867
-30	88.2	882	20659	39908	176803	111300	135233					414698	872	842
-35	86.3	863	26955	54751	242427	144100	179282					576763	851	816
-40	84.3	843	35480	75953	336098	188500	239828					810861	831	791

Due to continuous product improvement, specifications are subject to change without notice.

Nenutec Polska

00-236 Warszawa
ul. Świętojerska 5/7
tel.: +48-(0)-504-050225
nenutec@nenutec.pl