



## Temperaturgeber

Kennlinie-Tabellen

## Temperature Sensors

Characteristic Curve Tables

Temperaturgeber: Heißleiter  
Temperature sensor: thermistor

Kennlinie-Tabelle  
Characteristic curve table

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# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 1

### Heißleiter / Thermistor 92-027-004

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	17162.35	16.93	2906.00
-35.0	12439.50	16.32	2029.83
-30.0	9134.53	15.72	1435.77
-25.0	6764.48	15.13	1023.58
-20.0	5067.60	14.56	737.59
-15.0	3833.89	14.14	542.02
-10.0	2929.90	13.75	402.82
-5.0	2249.44	13.37	300.80
.0	1743.15	13.00	226.69
5.0	1364.07	12.65	172.56
10.0	1075.63	12.34	132.75
15.0	850.09	12.18	103.51
20.0	676.95	12.02	81.36
25.0	543.54	11.74	63.83
30.0	439.29	11.50	50.52
35.0	356.64	11.38	40.59
40.0	291.46	11.25	32.79
45.0	239.56	11.11	26.62
50.0	197.29	11.20	22.10
55.0	161.46	10.86	17.54
60.0	134.03	10.04	13.46
65.0	113.96	9.86	11.23
70.0	97.05	9.87	9.58
75.0	82.36	9.49	7.82
80.0	70.12	9.21	6.46
85.0	59.73	8.91	5.32
90.0	51.21	8.48	4.34
95.0	44.32	8.07	3.58
100.0	38.47	7.74	2.98
105.0	33.40	8.18	2.73
110.0	29.12	8.59	2.50
115.0	25.53	9.22	2.35
120.0	22.44	9.89	2.22
125.0	19.75	10.53	2.08
130.0	17.44	11.16	1.95
135.0	15.46	11.82	1.83
140.0	13.75	12.49	1.72
145.0	12.26	13.17	1.61
150.0	10.96	13.86	1.52

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 2

### Heißleiter / Thermistor 92-027-006

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	36563.56	14.26	5212.38
-35.0	26284.63	13.87	3645.02
-30.0	19149.20	13.48	2581.56
-25.0	14127.68	13.11	1851.71
-20.0	10540.68	12.77	1346.27
-15.0	7721.35	12.60	972.85
-10.0	5720.88	12.45	712.14
-5.0	4284.03	12.32	527.68
0	3240.18	12.21	395.75
5.0	2473.60	12.13	300.01
10.0	1905.87	12.05	229.70
15.0	1486.65	12.10	179.88
20.0	1168.64	12.17	142.19
25.0	926.71	12.25	113.52
30.0	739.98	12.34	91.32
35.0	594.90	12.43	73.97
40.0	481.53	12.51	60.26
45.0	392.57	12.36	48.51
50.0	322.17	12.17	39.20
55.0	266.19	11.97	31.87
60.0	221.17	11.77	26.02
65.0	184.72	11.60	21.42
70.0	155.29	11.36	17.64
75.0	131.38	11.00	14.45
80.0	112.08	10.48	11.75
85.0	96.40	10.00	9.64
90.0	82.96	9.68	8.03
95.0	71.44	9.32	6.66
100.0	61.92	8.87	5.49
105.0	54.01	8.45	4.56
110.0	47.24	8.07	3.81
115.0	41.42	7.73	3.20
120.0	36.51	7.32	2.67
125.0	32.38	7.36	2.38
130.0	28.81	7.41	2.13
135.0	25.70	7.76	1.99
140.0	23.00	8.09	1.86
145.0	20.66	8.36	1.73
150.0	18.59	8.66	1.61
155.0	16.74	8.85	1.48
160.0	15.11	9.04	1.37
165.0	13.66	9.24	1.26
170.0	12.38	9.46	1.17
175.0	11.25	9.67	1.09
180.0	10.24	9.90	1.01

**Prüfmedium**  
**Test fluid:**  
**Marlotherm S**

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 3

### Heißleiter / Thermistor 92-027-016

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	6494.33	13.29	862.90
-25.0	4648.88	13.08	607.86
-20.0	3369.82	12.89	434.40
-15.0	2471.21	12.74	314.78
-10.0	1831.83	12.61	230.98
-5.0	1371.63	12.52	171.69
.0	1036.68	12.47	129.24
5.0	790.38	12.45	98.41
10.0	607.53	12.47	75.74
15.0	470.63	12.52	58.92
20.0	367.31	12.59	46.24
25.0	289.19	12.68	36.67
30.0	229.32	12.75	29.24
35.0	183.20	12.82	23.48
40.0	147.46	12.84	18.94
45.0	119.63	12.75	15.25
50.0	97.83	12.57	12.29
55.0	80.64	13.80	11.13
60.0	67.01	14.92	10.00
65.0	56.10	14.35	8.05
70.0	47.32	13.71	6.49
75.0	40.18	13.03	5.23
80.0	34.42	12.23	4.21
85.0	29.68	11.53	3.42
90.0	25.59	10.98	2.81
95.0	22.13	10.67	2.36
100.0	19.25	10.33	1.99
105.0	16.83	10.28	1.73
110.0	14.76	10.24	1.51
115.0	12.99	10.22	1.33
120.0	11.46	10.21	1.17
125.0	10.15	10.77	1.09
130.0	9.01	11.34	1.02
135.0	8.02	11.93	.96
140.0	7.15	12.54	.90
145.0	6.40	13.16	.84
150.0	5.73	13.79	.79

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 4

### Heißleiter / Thermistor 92-027-081

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	15980.29	19.78	3161.44
-25.0	11841.55	18.98	2247.59
-20.0	8875.65	18.20	1615.04
-15.0	6679.28	17.42	1163.54
-10.0	5078.36	16.67	846.35
-5.0	3879.50	15.92	617.49
.0	2991.26	15.19	454.40
5.0	2323.47	14.43	335.33
10.0	1819.64	13.69	249.17
15.0	1434.17	13.02	186.67
20.0	1138.30	12.37	140.81
25.0	908.81	11.07	100.65
30.0	731.94	10.77	78.82
35.0	591.25	10.74	63.53
40.0	480.71	10.71	51.50
45.0	393.35	10.61	41.74
50.0	323.63	10.53	34.08
55.0	267.45	10.43	27.91
60.0	222.54	10.27	22.86
65.0	186.47	10.03	18.70
70.0	157.09	9.77	15.35
75.0	133.02	9.44	12.56
80.0	113.22	9.09	10.30
85.0	96.84	8.73	8.46
90.0	83.25	8.34	6.95
95.0	71.93	7.95	5.72
100.0	62.43	7.54	4.71
105.0	54.43	7.13	3.88
110.0	47.62	6.73	3.20
115.0	41.79	6.30	2.63
120.0	36.81	5.87	2.16
125.0	32.54	5.45	1.77
130.0	28.86	5.04	1.46
135.0	25.66	5.52	1.42
140.0	22.87	6.03	1.38
145.0	20.40	6.51	1.33
150.0	18.25	6.99	1.28
155.0	16.38	7.49	1.23
160.0	14.73	8.00	1.18
165.0	13.28	8.57	1.14
170.0	11.99	9.14	1.10
175.0	10.85	9.73	1.06
180.0	9.84	10.32	1.02

**Prüfmedium**  
**Test fluid:**  
**Marlotherm S**

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 5

### Heißleiter / Thermistor 92-027-022

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	19927.45	17.19	3426.11
-35.0	14754.35	16.75	2471.48
-30.0	11056.91	16.32	1804.21
-25.0	8379.81	15.89	1331.85
-20.0	6417.93	15.49	994.32
-15.0	4950.53	14.88	736.71
-10.0	3854.56	14.29	550.63
-5.0	3027.56	13.70	414.92
.0	2396.66	13.17	315.60
5.0	1903.88	12.95	246.56
10.0	1523.61	12.76	194.35
15.0	1227.76	12.58	154.49
20.0	994.33	12.51	124.43
25.0	806.79	12.69	102.37
30.0	658.54	12.88	84.84
35.0	540.63	13.09	70.77
40.0	445.93	13.35	59.53
45.0	369.38	13.51	49.89
50.0	307.64	13.65	42.01
55.0	257.61	13.78	35.50
60.0	217.02	13.84	30.04
65.0	183.89	13.71	25.21
70.0	156.68	13.52	21.19
75.0	134.23	13.27	17.81
80.0	115.41	13.05	15.06
85.0	99.74	12.93	12.89
90.0	86.67	12.73	11.04
95.0	75.70	12.48	9.45
100.0	66.61	12.05	8.03
105.0	58.88	12.08	7.11
110.0	52.27	12.07	6.31
115.0	46.58	12.04	5.61
120.0	41.59	12.07	5.02
125.0	37.26	12.09	4.51
130.0	33.49	12.11	4.05
135.0	30.20	12.12	3.66
140.0	27.29	12.14	3.31
145.0	24.73	12.03	2.97
150.0	22.46	11.91	2.68

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 6

### Heißleiter / Thermistor 92-027-064

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	10407.46	11.68	1216.08
-25.0	8020.98	11.29	905.46
-20.0	6229.89	10.96	682.75
-15.0	4841.13	10.66	515.93
-10.0	3790.39	10.39	393.98
-5.0	2977.50	10.16	302.51
.0	2356.24	9.96	234.68
5.0	1877.62	9.78	183.54
10.0	1506.02	9.65	145.34
15.0	1215.79	9.54	116.01
20.0	987.12	9.50	93.76
25.0	806.99	9.53	76.88
30.0	662.36	9.59	63.50
35.0	545.98	9.69	52.91
40.0	452.25	9.79	44.29
45.0	376.46	9.92	37.34
50.0	314.24	10.15	31.89
55.0	263.14	10.26	27.00
60.0	222.01	10.27	22.79
65.0	188.57	10.34	19.51
70.0	160.68	10.46	16.80
75.0	137.51	10.47	14.40
80.0	118.19	10.44	12.34
85.0	102.06	10.34	10.56
90.0	88.56	10.17	9.01
95.0	77.20	9.95	7.69
100.0	67.71	9.63	6.52
105.0	59.63	9.35	5.57
110.0	52.71	9.04	4.76
115.0	46.77	8.69	4.06
120.0	41.64	8.27	3.44
125.0	37.20	8.28	3.08
130.0	33.39	8.18	2.73
135.0	30.05	8.11	2.44
140.0	27.08	8.13	2.20
145.0	24.44	8.08	1.98
150.0	22.14	7.96	1.76

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 7

### Heißleiter / Thermistor 92-027-017

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-20.0	25042.64	12.68	3176.13
-15.0	18749.57	11.54	2164.16
-10.0	14095.92	10.38	1463.46
-5.0	10710.62	9.23	988.28
.0	8220.03	8.08	664.08
5.0	6340.08	7.91	501.49
10.0	4934.67	7.74	381.96
15.0	3874.20	7.58	293.54
20.0	3066.43	7.42	227.53
25.0	2437.07	7.31	178.13
30.0	1951.37	7.20	140.42
35.0	1573.61	7.08	111.47
40.0	1277.55	6.97	89.03
45.0	1043.72	7.13	74.44
50.0	857.97	7.29	62.58
55.0	709.47	7.45	52.87
60.0	590.02	7.63	45.01
65.0	490.70	7.23	35.48
70.0	410.30	6.82	27.99
75.0	344.87	6.41	22.10
80.0	291.32	6.00	17.47
85.0	246.75	6.34	15.65
90.0	209.98	6.66	13.99
95.0	180.02	6.55	11.80
100.0	155.00	6.45	10.00
105.0	133.71	6.74	9.01
110.0	115.80	7.02	8.13
115.0	100.67	7.30	7.35
120.0	87.84	7.57	6.65
125.0	76.91	7.84	6.03
130.0	67.56	8.11	5.48
135.0	59.54	8.37	4.98
140.0	52.63	8.64	4.55
145.0	46.66	8.90	4.15
150.0	41.49	9.17	3.80

Prüfmedium / Test fluid: Glycoshell



# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 8

### Heißleiter / Thermistor 92-027-008

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	19125.46	13.50	2582.77
-25.0	14104.94	13.14	1853.43
-20.0	10516.08	12.81	1347.54
-15.0	7698.13	12.66	974.42
-10.0	5698.66	12.52	713.32
-5.0	4262.78	12.41	528.90
.0	3219.76	12.33	396.87
5.0	2454.24	12.27	301.20
10.0	1887.81	12.22	230.75
15.0	1469.55	12.31	180.87
20.0	1152.48	12.43	143.20
25.0	913.48	12.79	116.85
30.0	728.86	13.16	95.92
35.0	585.36	13.53	79.18
40.0	473.27	13.86	65.60
45.0	385.37	13.92	53.64
50.0	315.70	13.95	44.05
55.0	260.21	13.97	36.35
60.0	216.04	13.88	29.99
65.0	180.68	13.76	24.87
70.0	152.03	13.60	20.68
75.0	128.71	13.30	17.12
80.0	109.76	12.88	14.14
85.0	94.22	12.55	11.82
90.0	81.22	12.26	9.96
95.0	70.32	11.81	8.31
100.0	61.19	11.33	6.93
105.0	53.50	10.93	5.85
110.0	46.94	10.56	4.96
115.0	41.33	10.15	4.20
120.0	36.54	9.69	3.54
125.0	32.42	9.89	3.21
130.0	28.87	10.02	2.89
135.0	25.81	10.41	2.69
140.0	23.13	10.83	2.51
145.0	20.77	11.14	2.31
150.0	18.70	11.39	2.13
155.0	16.90	11.62	1.96
160.0	15.31	11.86	1.81
165.0	13.89	12.10	1.68
170.0	12.63	12.35	1.56
175.0	11.51	12.61	1.45
180.0	10.50	12.88	1.35

**Prüfmedium**  
**Test fluid:**  
**Marlotherm S**

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 9

### Heißleiter / Thermistor 92-027-119

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	17682.54	10.98	1941.37
-35.0	12886.35	10.50	1353.05
-30.0	9511.94	10.03	953.67
-25.0	7048.53	9.51	670.17
-20.0	5283.37	9.00	475.72
-15.0	3976.49	8.60	341.94
-10.0	3024.12	8.21	248.19
-5.0	2311.12	7.86	181.69
.0	1783.12	7.53	134.20
5.0	1386.46	7.19	99.70
10.0	1087.36	6.86	74.61
15.0	858.73	6.52	56.00
20.0	683.59	6.18	42.23
25.0	548.72	5.96	32.68
30.0	443.66	5.73	25.41
35.0	360.47	5.48	19.76
40.0	294.95	5.22	15.39
45.0	243.01	4.95	12.04
50.0	201.46	4.69	9.45
55.0	167.63	4.40	7.37
60.0	140.31	4.09	5.74
65.0	118.22	3.83	4.53
70.0	100.12	3.58	3.58
75.0	85.05	3.31	2.82
80.0	72.58	3.05	2.21
85.0	62.22	2.78	1.73
90.0	53.56	2.52	1.35
95.0	46.23	2.26	1.04
100.0	40.06	1.99	.80
105.0	34.85	2.23	.78
110.0	30.43	2.49	.76
115.0	26.63	2.68	.71
120.0	23.38	2.88	.67
125.0	20.58	3.08	.63
130.0	18.17	3.28	.60

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 10

### Heißleiter / Thermistor 92-027-079

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-25.0	296776.75	45.07	133772.00
-20.0	244764.88	40.86	99999.21
-15.0	199555.48	36.74	73325.48
-10.0	161040.78	32.87	52928.31
-5.0	128865.90	29.32	37778.61
.0	102463.83	26.17	26812.55
5.0	81141.90	23.41	18997.22
10.0	64133.61	21.04	13496.08
15.0	50695.18	19.00	9634.20
20.0	40140.31	17.24	6921.48
25.0	31913.54	15.79	5040.00
30.0	25470.75	14.51	3696.58
35.0	20420.35	13.37	2729.88
40.0	16452.20	12.32	2027.02
45.0	13324.39	11.35	1511.76
50.0	10848.26	10.43	1131.70
55.0	8879.55	9.56	849.01
60.0	7306.76	8.72	637.35
65.0	6044.02	7.92	478.57
70.0	5025.16	7.13	358.44
75.0	4194.78	6.36	266.61
80.0	3518.73	5.59	196.75
85.0	2963.76	4.90	145.37
90.0	2507.67	4.23	105.98
95.0	2131.15	3.55	75.68
100.0	1819.13	2.89	52.63
105.0	1555.71	3.53	54.95
110.0	1335.78	4.17	55.75
115.0	1151.39	4.82	55.45
120.0	996.30	5.47	54.50
125.0	863.76	6.09	52.58
130.0	751.51	6.71	50.44
135.0	655.66	7.33	48.07
140.0	573.94	7.96	45.66
145.0	503.72	8.58	43.20
150.0	443.47	9.20	40.80
155.0	391.39	9.82	38.43
160.0	346.44	10.44	36.17
165.0	307.33	11.06	33.99
170.0	273.37	11.68	31.92
175.0	243.79	12.29	29.97
180.0	217.95	12.91	28.14

**Prüfmedium**  
**Test fluid:**  
**Marlotherm S**

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 11

### Heißleiter / Thermistor 92-027-122

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	1785803.9	13.39	239048.10
-35.0	1275122.2	12.81	163306.90
-30.0	918286.97	12.26	112614.80
-25.0	665948.91	11.72	78043.37
-20.0	488148.29	11.21	54726.82
-15.0	359767.25	10.72	38582.75
-10.0	267864.56	10.23	27411.62
-5.0	200375.83	9.79	19618.48
.0	151350.70	9.37	14175.68
5.0	115392.59	8.94	10317.02
10.0	88744.99	8.53	7573.49
15.0	68922.74	8.14	5611.03
20.0	53933.66	7.78	4197.33
25.0	42643.00	7.52	3205.67
30.0	33955.49	7.28	2471.82
35.0	27115.10	7.04	1908.96
40.0	21792.92	6.79	1479.29
45.0	17657.32	6.56	1157.87
50.0	14388.38	6.33	910.24
55.0	11770.42	6.10	717.44
60.0	9682.07	5.88	569.37
65.0	8002.82	5.67	453.80
70.0	6645.76	5.44	361.86
75.0	5547.35	5.24	290.90
80.0	4649.77	5.00	232.29
85.0	3922.24	4.82	189.15
90.0	3323.40	4.61	153.31
95.0	2823.34	4.42	124.85
100.0	2407.19	4.19	100.84
105.0	2062.38	4.45	91.88
110.0	1773.65	4.69	83.27
115.0	1529.06	4.96	75.79
120.0	1322.37	5.18	68.52
125.0	1147.54	5.44	62.42
130.0	998.82	5.66	56.56

Prüfmedium / Test fluid: Glycol

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 12

### Heißleiter / Thermistor 92-027-005

Teil / Section 1

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	46051.47	21.56	9929.25
-25.0	33802.79	20.08	6787.31
-20.0	25007.98	18.60	4651.45
-15.0	18714.60	17.12	3204.63
-10.0	14063.03	16.49	2318.87
-5.0	10679.03	15.86	1693.77
.0	8189.16	15.25	1248.65
5.0	6310.21	14.80	934.00
10.0	4906.17	14.37	704.87
15.0	3846.86	13.94	536.35
20.0	3039.65	13.54	411.67
25.0	2414.20	13.25	319.78
30.0	1931.11	12.96	250.21
35.0	1555.23	12.68	197.21
40.0	1260.48	12.42	156.58
45.0	1026.45	12.22	125.43
50.0	841.37	11.97	100.73
55.0	698.00	11.79	82.32
60.0	580.98	11.76	68.32
65.0	478.97	11.60	55.55
70.0	397.50	11.36	45.15
75.0	333.56	11.20	37.35
80.0	281.83	10.90	30.73
85.0	240.92	10.67	25.70
90.0	205.99	10.70	22.04
95.0	174.44	10.53	18.36
100.0	148.81	10.19	15.16
105.0	128.32	9.93	12.74
110.0	111.37	9.51	10.60
115.0	97.57	9.19	8.97
120.0	85.47	9.13	7.80
125.0	74.31	8.85	6.57
130.0	64.99	8.42	5.47
135.0	57.38	8.06	4.62
140.0	50.84	7.68	3.91
145.0	45.20	7.42	3.35
150.0	40.29	7.17	2.89
155.0	35.97	6.81	2.45
160.0	32.19	6.51	2.10
165.0	28.76	6.96	2.00

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# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 12

### Heißleiter / Thermistor 92-027-005

Teil / Section 2

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
170.0	25.76	7.29	1.88
175.0	23.34	7.44	1.74
180.0	21.20	7.65	1.62
185.0	19.20	7.91	1.52
190.0	17.43	8.22	1.43
195.0	15.78	8.54	1.35
200.0	14.29	8.79	1.26
205.0	13.11	8.98	1.18
210.0	12.05	9.21	1.11
215.0	11.04	9.51	1.05
220.0	10.12	9.81	.99
225.0	9.30	10.07	.94
230.0	8.55	10.33	.88
235.0	7.88	10.59	.83
240.0	7.27	10.86	.79
245.0	6.72	11.17	.75
250.0	6.21	11.50	.71

Prüfmedium / Test fluid: Silikonöl / Silicon oil

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 13

### Heißleiter / Thermistor 92-027-007

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	10839.97	10.22	1107.44
-25.0	7894.30	9.43	744.46
-20.0	5820.86	8.64	503.02
-15.0	4329.44	7.84	339.58
-10.0	3256.85	7.04	229.25
-5.0	2470.11	6.22	153.64
.0	1892.98	5.39	102.01
5.0	1464.43	6.01	88.03
10.0	1143.48	6.62	75.74
15.0	899.41	7.22	64.96
20.0	713.37	7.82	55.76
25.0	570.94	8.45	48.26
30.0	460.31	9.09	41.84
35.0	373.18	9.72	36.29
40.0	304.56	10.36	31.55
45.0	249.55	11.00	27.44
50.0	205.71	11.63	23.92
55.0	171.09	12.27	20.99
60.0	143.08	12.91	18.47
65.0	120.18	13.55	16.29
70.0	101.46	14.20	14.41
75.0	85.95	14.84	12.76
80.0	73.15	15.49	11.33
85.0	62.54	16.13	10.09
90.0	53.69	16.77	9.01
95.0	46.29	17.42	8.06
100.0	40.06	18.06	7.24
105.0	34.81	18.70	6.51
110.0	30.35	19.35	5.87
115.0	26.55	19.99	5.31
120.0	23.31	20.64	4.81
125.0	20.53	21.28	4.37
130.0	18.14	21.92	3.98
135.0	16.08	22.56	3.63
140.0	14.29	23.20	3.31
145.0	12.73	23.84	3.04
150.0	11.38	24.48	2.79

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 14

### Heißleiter / Thermistor 92-027-063

Teil / Section 1

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	58109.87	15.65	9092.63
-35.0	42262.95	15.42	6515.34
-30.0	31137.77	15.20	4732.21
-25.0	23219.79	14.99	3481.09
-20.0	17512.24	14.80	2592.05
-15.0	13347.82	14.63	1952.27
-10.0	10275.77	14.47	1487.11
-5.0	7984.93	14.34	1145.04
.0	6259.39	14.23	890.83
5.0	4947.11	14.15	699.97
10.0	3940.41	14.10	555.45
15.0	3161.47	14.07	444.95
20.0	2553.96	14.08	359.70
25.0	2079.11	14.19	295.02
30.0	1702.75	14.33	244.01
35.0	1402.59	14.50	203.31
40.0	1161.68	14.69	170.60
45.0	967.22	14.90	144.08
50.0	808.98	15.16	122.68
55.0	679.30	15.41	104.68
60.0	572.84	15.70	89.95
65.0	485.03	15.94	77.31
70.0	412.37	16.21	66.83
75.0	352.10	16.40	57.73
80.0	301.84	16.60	50.10
85.0	259.92	16.68	43.34
90.0	224.71	16.75	37.64
95.0	195.18	16.69	32.57
100.0	170.18	16.61	28.27
105.0	149.07	16.38	24.42
110.0	131.05	16.15	21.17
115.0	115.72	15.78	18.26
120.0	102.55	15.39	15.78
125.0	91.25	14.91	13.60

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# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 14

### Heißleiter / Thermistor 92-027-063

Teil / Section 2

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
130.0	81.41	14.46	11.77
135.0	72.90	13.91	10.14
140.0	65.44	13.39	8.76
145.0	58.93	12.79	7.54
150.0	53.35	12.03	6.42
155.0	48.42	11.56	5.59
160.0	44.05	11.09	4.88
165.0	40.17	10.61	4.26
170.0	36.68	10.19	3.74
175.0	33.57	9.73	3.27
180.0	30.76	9.33	2.87
185.0	28.23	8.89	2.51
190.0	25.97	8.43	2.19
195.0	23.93	8.02	1.92
200.0	22.10	7.58	1.67
205.0	20.44	7.20	1.47
210.0	18.92	6.93	1.31
215.0	17.52	6.85	1.20
220.0	16.24	6.81	1.11
225.0	15.07	6.74	1.02
230.0	14.01	6.61	.93
235.0	13.06	7.11	.93
240.0	12.19	7.63	.93
245.0	11.39	8.15	.93
250.0	10.65	8.68	.92

Prüfmedium / Test fluid: Silikonöl / Silicon oil

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 15

### Heißleiter / Thermistor 92-027-126

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	49089.59	11.43	5609.48
-35.0	34454.74	10.97	3778.40
-30.0	24445.25	10.57	2583.24
-25.0	17524.57	10.21	1788.66
-20.0	12687.10	9.92	1258.67
-15.0	9271.93	9.69	898.58
-10.0	6837.60	9.51	650.26
-5.0	5086.33	9.40	478.28
.0	3815.65	9.31	355.12
5.0	2886.81	9.26	267.34
10.0	2202.95	9.22	203.11
15.0	1696.02	9.11	154.46
20.0	1317.86	8.95	117.94
25.0	1036.32	8.99	93.13
30.0	822.74	8.91	73.34
35.0	659.37	8.73	57.59
40.0	533.28	8.49	45.27
45.0	435.01	8.16	35.48
50.0	357.67	7.77	27.81
55.0	296.22	7.39	21.89
60.0	246.93	6.98	17.23
65.0	207.06	6.56	13.58
70.0	174.57	6.13	10.71
75.0	147.90	5.75	8.50
80.0	125.88	5.31	6.68
85.0	107.58	5.52	5.94
90.0	92.31	5.68	5.24
95.0	79.52	5.85	4.65
100.0	68.75	6.00	4.13
105.0	59.64	6.17	3.68
110.0	51.92	6.35	3.30
115.0	45.35	6.53	2.96
120.0	39.73	6.69	2.66
125.0	34.92	6.87	2.40
130.0	30.79	7.07	2.18
135.0	27.22	7.26	1.98
140.0	24.14	7.44	1.80

Prüfmedium / Test fluid: Glycol

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 16

### Heißleiter / Thermistor 92-027-029-3901

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	5848.26	.44	25.48
-35.0	5725.69	.50	28.68
-30.0	5574.12	.57	31.65
-25.0	5389.39	.63	34.06
-20.0	5174.01	.69	35.60
-15.0	4927.41	.71	35.08
-10.0	4658.61	.71	33.08
-5.0	4372.59	.69	30.08
.0	4082.00	.64	26.00
5.0	3794.36	.68	25.83
10.0	3520.31	.72	25.25
15.0	3262.42	.74	24.26
20.0	3029.33	.76	22.92
25.0	2823.37	.82	23.25
30.0	2643.73	.87	23.01
35.0	2486.95	.90	22.41
40.0	2353.45	.91	21.48
45.0	2239.89	.91	20.30
50.0	2144.43	.89	19.03
55.0	2063.97	.85	17.64
60.0	1996.72	.82	16.30
65.0	1940.11	.77	14.96
70.0	1892.86	.72	13.71
75.0	1853.26	.67	12.44
80.0	1820.12	.62	11.30
85.0	1792.21	.58	10.43

Prüfmedium / Test fluid: **Silikonöl M5**  
**Silicon oil M5**

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 17

### Heißleiter / Thermistor 92-027-106

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	168093.30	7.47	12560.47
-35.0	121029.12	7.14	8643.73
-30.0	88317.66	6.82	6021.00
-25.0	64989.19	6.60	4286.48
-20.0	48401.40	6.38	3087.91
-15.0	36313.93	6.11	2220.28
-10.0	27541.68	5.85	1610.30
-5.0	21040.55	5.68	1195.06
.0	16232.97	5.51	894.73
5.0	12608.31	5.29	666.74
10.0	9881.91	5.06	499.56
15.0	7796.08	4.81	374.99
20.0	6201.36	4.56	282.59
25.0	4965.97	4.45	220.76
30.0	4002.83	4.23	169.22
35.0	3244.88	3.95	128.24
40.0	2648.25	3.68	97.35
45.0	2172.41	3.45	74.87
50.0	1793.05	3.22	57.68
55.0	1486.82	3.29	48.91
60.0	1239.77	3.37	41.73
65.0	1037.84	3.59	37.30
70.0	873.28	3.82	33.39
75.0	738.12	3.96	29.22
80.0	626.83	4.09	25.66
85.0	534.39	4.18	22.33
90.0	457.57	4.27	19.53
95.0	393.20	4.41	17.33
100.0	339.26	4.55	15.43
105.0	293.70	4.59	13.48
110.0	255.21	4.64	11.83
115.0	222.47	4.88	10.86
120.0	194.59	5.13	9.98
125.0	170.71	5.22	8.92
130.0	150.24	5.32	7.99
135.0	132.59	5.47	7.25
140.0	117.36	5.62	6.59
145.0	104.15	5.86	6.11
150.0	92.68	6.11	5.66

Prüfmedium / Test fluid: **Silikonöl M5 / M20**  
**Silicon oil M5 / M20**

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 18

### Heißleiter / Thermistor 92-027-121

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	2598.34	41	10.68
-25.0	2573.55	51	13.12
-20.0	2541.52	63	16.04
-15.0	2501.37	78	19.46
-10.0	2451.97	95	23.33
-5.0	2392.29	1.15	27.59
.0	2321.57	1.38	32.11
5.0	2237.74	1.64	36.72
10.0	2142.11	1.92	41.12
15.0	2034.45	2.22	45.10
20.0	1916.98	2.52	48.32
25.0	1791.62	2.86	51.16
30.0	1660.49	3.19	52.94
35.0	1526.20	3.46	52.83
40.0	1392.31	3.70	51.56
45.0	1260.61	3.88	48.89
50.0	1134.37	4.01	45.45
55.0	1014.70	4.12	41.79
60.0	903.63	4.19	37.83
65.0	801.29	4.25	34.02
70.0	708.60	4.27	30.24
75.0	625.05	4.25	26.59
80.0	550.68	4.21	23.18
85.0	484.48	4.18	20.25
90.0	426.21	4.12	17.58
95.0	374.99	4.01	15.03
100.0	330.17	3.87	12.78
105.0	291.07	3.72	10.84
110.0	256.99	3.57	9.18
115.0	226.85	3.44	7.81
120.0	200.63	3.31	6.64
125.0	177.44	3.54	6.28
130.0	157.24	3.76	5.92
135.0	139.62	3.99	5.57
140.0	124.25	4.21	5.24
145.0	110.80	4.44	4.92
150.0	99.01	4.66	4.61

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 19

### Heißleiter / Thermistor 92-027-010

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-30.0	6494.33	13.29	862.90
-25.0	4648.88	13.08	607.86
-20.0	3369.82	12.89	434.40
-15.0	2471.21	12.74	314.78
-10.0	1831.83	12.61	230.98
-5.0	1371.63	12.52	171.69
.0	1036.68	12.47	129.24
5.0	790.38	12.45	98.41
10.0	607.53	12.47	75.74
15.0	470.63	12.52	58.92
20.0	367.31	12.59	46.24
25.0	289.19	12.68	36.67
30.0	229.32	12.75	29.24
35.0	183.20	12.82	23.48
40.0	147.46	12.84	18.94
45.0	119.63	12.75	15.25
50.0	97.83	12.57	12.29
55.0	80.64	13.80	11.13
60.0	67.01	14.92	10.00
65.0	56.10	14.35	8.05
70.0	47.32	13.71	6.49
75.0	40.18	13.03	5.23
80.0	34.42	12.23	4.21
85.0	29.68	11.53	3.42
90.0	25.59	10.98	2.81
95.0	22.13	10.67	2.36
100.0	19.25	10.33	1.99
105.0	16.83	10.28	1.73
110.0	14.76	10.24	1.51
115.0	12.99	10.22	1.33
120.0	11.46	10.21	1.17
125.0	10.15	10.77	1.09
130.0	9.01	11.34	1.02
135.0	8.02	11.93	.96
140.0	7.15	12.54	.90
145.0	6.40	13.16	.84
150.0	5.73	13.79	.79

Prüfmedium / Test fluid: Glycoshell

# Temperaturgeber / Temperature Sensors

## Kennlinie-Tabelle / Characteristic Curve Table 20

### Heißleiter / Thermistor 92-027-011

Temp. °C	Geber / Sensor		
	R (Ohm)	± Tol (%)	± Tol (Ohm)
-40.0	36563.56	14.26	5212.38
-35.0	26284.63	13.87	3645.02
-30.0	19149.20	13.48	2581.56
-25.0	14127.68	13.11	1851.71
-20.0	10540.68	12.77	1346.27
-15.0	7721.35	12.60	972.85
-10.0	5720.88	12.45	712.14
-5.0	4284.03	12.32	527.68
.0	3240.18	12.21	395.75
5.0	2473.60	12.13	300.01
10.0	1905.87	12.05	229.70
15.0	1486.65	12.10	179.88
20.0	1168.64	12.17	142.19
25.0	926.71	12.25	113.52
30.0	739.98	12.34	91.32
35.0	594.90	12.43	73.97
40.0	481.53	12.51	60.26
45.0	392.57	12.36	48.51
50.0	322.17	12.17	39.20
55.0	266.19	11.97	31.87
60.0	221.17	11.77	26.02
65.0	184.72	11.60	21.42
70.0	155.29	11.36	17.64
75.0	131.38	11.00	14.45
80.0	112.08	10.48	11.75
85.0	96.40	10.00	9.64
90.0	82.96	9.68	8.03
95.0	71.44	9.32	6.66
100.0	61.92	8.87	5.49
105.0	54.01	8.45	4.56
110.0	47.24	8.07	3.81
115.0	41.42	7.73	3.20
120.0	36.51	7.32	2.67
125.0	32.38	7.36	2.38
130.0	28.81	7.41	2.13
135.0	25.70	7.76	1.99
140.0	23.00	8.09	1.86
145.0	20.66	8.36	1.73
150.0	18.59	8.66	1.61
155.0	16.74	8.85	1.48
160.0	15.11	9.04	1.37
165.0	13.66	9.24	1.26
170.0	12.38	9.46	1.17
175.0	11.25	9.67	1.09
180.0	10.24	9.90	1.01

**Prüfmedium**  
**Test fluid:**  
**Glycoshell**