

DOL 10

DOL 10 is a simple temperature sensor. The sensor is well suited for use in environments where a sturdy design and a rapid response time is required

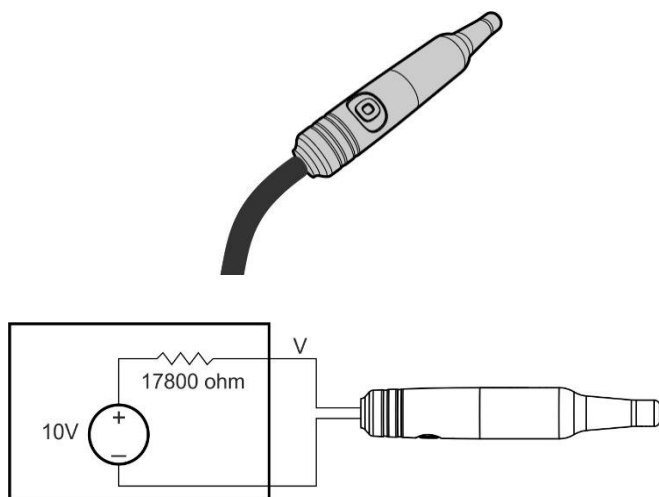


FIGURE 1

140246 DOL 10 TEMPERATURE SENSOR

This sensor is intended for measuring both inside and outside temperatures.

Maintenance

DOL 10 is cleaned with water and a brush without using:

- High-pressure cleaner
- Highly compressed air

TABLE 1 SENSOR CHARACTERISTICS

°C	kΩ*	V**	°C	kΩ*	V**	°C	kΩ*	V**
-40	82.50	8.08	15	20.71	5.29	38	10.72	3.73
-35	76.84	7.96	16	20.09	5.22	39	10.45	3.67
-30	70.60	7.83	17	19.48	5.15	40	10.19	3.61
-25	63.97	7.68	18	18.90	5.07	41	9.94	3.55
-20	57.18	7.49	19	18.33	5.00	42	9.70	3.50
-15	50.50	7.26	20	17.79	4.93	43	9.47	3.44
-10	44.12	7.00	21	17.26	4.85	44	9.24	3.39
-5	38.22	6.70	22	16.76	4.78	45	9.03	3.34
0	32.91	6.37	23	16.27	4.71	46	8.82	3.29
1	31.92	6.30	24	15.79	4.64	47	8.62	3.24
2	30.96	6.23	25	15.34	4.57	48	8.43	3.19
3	30.02	6.16	26	14.90	4.50	49	8.24	3.14
4	29.11	6.09	27	14.48	4.43	50	8.06	3.09
5	28.23	6.02	28	14.07	4.36	55	7.26	2.87
6	27.37	5.95	29	13.68	4.30	60	6.59	2.68
7	26.53	5.88	30	13.30	4.23			
8	25.72	5.81	31	12.93	4.16			
9	24.94	5.73	32	12.58	4.10			
10	24.17	5.66	33	12.24	4.03			
11	23.44	5.59	34	11.91	3.97			
12	22.72	5.51	35	11.60	3.91			
13	22.03	5.44	36	11.30	3.85			
14	21.36	5.37	37	11.01	3.79			

*Zero power measurement

**see figure 1

TECHNICAL DATA

Electrical

Measuring range	-40°C to +60°C
Accuracy	±0.5°C
Time constant T ₆₃	1½ min. at 0.5 m/s air velocity

Environment

Ambient temperature, operation and storage	-40°C to +60°C
Protection class, electronics	IP 67

Shipping

Length, Diameter	52 mm, 9 mm
Cable	Two-core, 1.4 m, Ø 5 mm
Weight incl. cable	80 g

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