DOL 12 Temperature Sensor

DOL 12 is a simple temperature sensor. The sensor is well suited for use in environments where a sturdy design is required.

°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	**65**	6.04	2.51
8	25.72	5.81	**31**	12.93	4.16	**70**	5.57	2.36
9	24.94	5.73	**32**	12.58	4.10	**75**	5.18	2.23
10	24.17	5.66	**33**	12.24	4.03	**80**	4.86	2.11
11	23.44	5.59	**34**	11.91	3.97	**85**	4.58	2.02
12	22.72	5.51	**35**	11.60	3.91	**90**	4.35	1.95
13	22.03	5.44	**36**	11.30	3.85	**95**	4.15	1.91
14	21.36	5.37	**37**	11.01	3.79	**100**	3.99	1.90

Table 1: Sensor characteristics. *Zero power measurement

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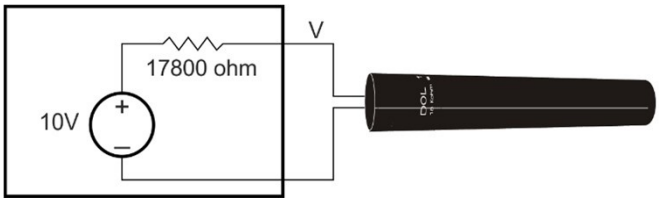
Product survey

140200 DOL 12 temperature sensor

Is used for measuring both inside and outside temperatures.

Cable length: 1.5 m.

Electrical connection



Technical data

Electrical		
Measuring range	°C	-40 to +60
Accuracy	°C	±0.5
Time constant	T_{63}	5 min. at 0.5 m/s air speed
Mechanical		
Cable		Two-wire, 1.5 m, ø5 mm
Max. Cable length at 0.75 mm^2	m	100
Max. Cable length at 1.50 mm^2	m	200
Environment		
Ambient temperature	°C	-40 to +60
Protection class, electronics	IP	67
Shipment		
Length, diameter	mm	75, 14
Weight incl. cable	g	80