

DOL 12-100C temperature sensor



DOL 12-100C is suitable for use in smart-heat systems.

Table relating to DOL 12-100C temperature sensor control

°C	kΩ*	V	°C	kΩ*	V	°C	kΩ*	V
-40	82.503	8.078	15	20.713	5.300	38	10.724	3.719
-35	76.845	7.961	16	20.087	5.226	39	10.454	3.660
-30	70.600	7.833	17	19.482	5.152	40	10.193	3.602
-25	63.968	7.678	18	18.898	5.078	41	9.942	3.545
-20	57.185	7.489	19	18.334	5.005	42	9.700	3.490
-15	50.497	7.262	20	17.789	4.931	43	9.468	3.435
-10	44.121	6.997	21	17.263	4.858	44	9.243	3.381
-5	38.224	6.698	22	16.756	4.786	45	9.027	3.329
0	32.911	6.380	23	16.266	4.714	46	8.819	3.277
1	31.923	6.312	24	15.794	4.642	47	8.619	3.227
2	30.961	6.243	25	15.339	4.571	48	8.426	3.178
3	30.025	6.174	26	14.900	4.501	49	8.240	3.130
4	29.114	6.104	27	14.477	4.431	50	8.061	3.083
5	28.228	6.033	28	14.069	4.362	55	7.259	2.863
6	27.368	5.961	29	13.676	4.294	60	6.592	2.669
7	26.532	5.889	30	13.297	4.226	65	6.037	2.499
8	25.722	5.816	31	12.932	4.160	70	5.573	2.351
9	24.936	5.743	32	12.580	4.094	75	5.184	2.222
10	24.174	5.670	33	12.241	4.029	80	4.858	2.110
11	23.436	5.596	34	11.914	3.965	85	4.583	2.014
12	22.721	5.523	35	11.600	3.902	90	4.351	1.931
13	22.029	5.449	36	11.297	3.840	95	4.154	1.859
14	21.360	5.374	37	11.005	3.779	100	3.987	1.797

*Zero power measurement

Product survey

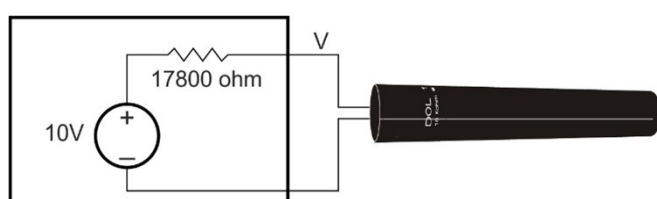


140399 DOL 12-100C temperature sensor

Used for SmartHeat.

Cable length: 1.5 m.

Electrical connection



Technical data

Electrical		
Measuring range	°C	-40 to +100
Accuracy	°C	0-60°C: ±0.5°C
		61-90°C: ±0.6°C
		91-100°C: ±0.8°C
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 +100
Protection class, electronics	IP	67
Shipment		
Length, diameter	mm	75, ø14
Weight incl. cable	g	80