

# 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
<b>-40</b>	82.50	8.08	<b>15</b>	20.71	5.29	<b>38</b>	10.72	3.73
<b>-35</b>	76.84	7.96	<b>16</b>	20.09	5.22	<b>39</b>	10.45	3.67
<b>-30</b>	70.60	7.83	<b>17</b>	19.48	5.15	<b>40</b>	10.19	3.61
<b>-25</b>	63.97	7.68	<b>18</b>	18.90	5.07	<b>41</b>	9.94	3.55
<b>-20</b>	57.18	7.49	<b>19</b>	18.33	5.00	<b>42</b>	9.70	3.50
<b>-15</b>	50.50	7.26	<b>20</b>	17.79	4.93	<b>43</b>	9.47	3.44
<b>-10</b>	44.12	7.00	<b>21</b>	17.26	4.85	<b>44</b>	9.24	3.39
<b>-5</b>	38.22	6.70	<b>22</b>	16.76	4.78	<b>45</b>	9.03	3.34
<b>0</b>	32.91	6.37	<b>23</b>	16.27	4.71	<b>46</b>	8.82	3.29
<b>1</b>	31.92	6.30	<b>24</b>	15.79	4.64	<b>47</b>	8.62	3.24
<b>2</b>	30.96	6.23	<b>25</b>	15.34	4.57	<b>48</b>	8.43	3.19
<b>3</b>	30.02	6.16	<b>26</b>	14.90	4.50	<b>49</b>	8.24	3.14
<b>4</b>	29.11	6.09	<b>27</b>	14.48	4.43	<b>50</b>	8.06	3.09
<b>5</b>	28.23	6.02	<b>28</b>	14.07	4.36	<b>55</b>	7.26	2.87
<b>6</b>	27.37	5.95	<b>29</b>	13.68	4.30	<b>60</b>	6.59	2.68
<b>7</b>	26.53	5.88	<b>30</b>	13.30	4.23	<b>65</b>	6.04	2.51
<b>8</b>	25.72	5.81	<b>31</b>	12.93	4.16	<b>70</b>	5.57	2.36
<b>9</b>	24.94	5.73	<b>32</b>	12.58	4.10	<b>75</b>	5.18	2.23
<b>10</b>	24.17	5.66	<b>33</b>	12.24	4.03	<b>80</b>	4.86	2.11
<b>11</b>	23.44	5.59	<b>34</b>	11.91	3.97	<b>85</b>	4.58	2.02
<b>12</b>	22.72	5.51	<b>35</b>	11.60	3.91	<b>90</b>	4.35	1.95
<b>13</b>	22.03	5.44	<b>36</b>	11.30	3.85	<b>95</b>	4.15	1.91
<b>14</b>	21.36	5.37	<b>37</b>	11.01	3.79	<b>100</b>	3.99	1.90

Table 1: Sensor characteristics. \*Zero power measurement

## Product survey

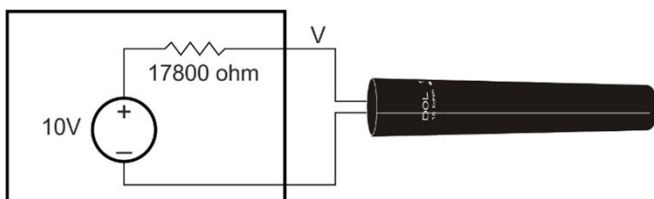


### 140200 DOL 12 temperature sensor

Is used for measuring both inside and outside temperatures.

Cable length: 1.5 m.

## Electrical connection



## Technical data

<b>Electrical</b>		
Measurement range	°C	-40 to +60
Accuracy	°C	±0.5
Time constant	T <sub>63</sub>	5 min. at 0.5 m/s air speed
<b>Mechanical</b>		
Cable		Two-wire, 1.5 m, ø5 mm
<b>Environment</b>		
Ambient temperature	°C	-40 to +60
Protection class, electronics	IP	67
<b>Shipment</b>		
Length, diameter	mm	75, 14
Weight incl. cable	g	80