

# DOL 104 Sensor

Climate sensor for measuring relative humidity.



## PRODUCT DESCRIPTION

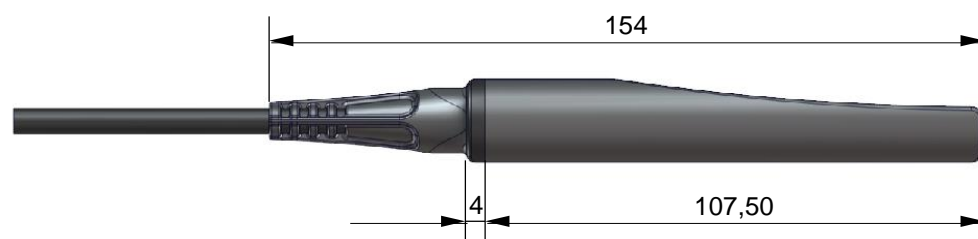
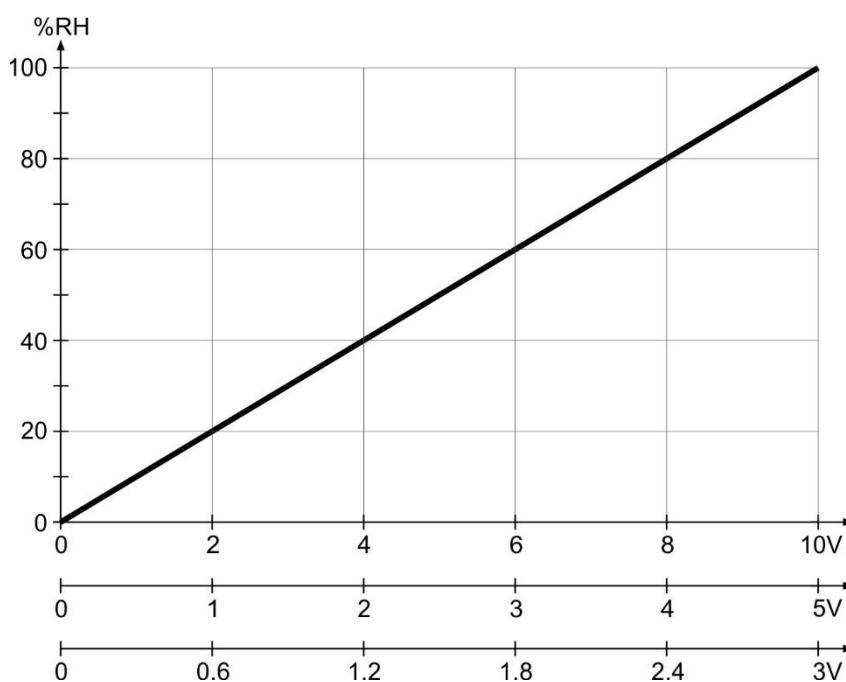
DOL 104 is a high-precision sensor for measuring relative humidity. It is intended for application in livestock houses but is also well suited for a number of industrial applications.

The sensor features one analogue output with very low output resistances and full protection against short circuits and wiring failures.

The special sensor element and the built-in Teflon filter enables application in livestock houses with constantly high humidity. The sensor is supplied with a cable. The cable can be supplied with a specially adapted specification area upon agreement.

Sensor is microprocessor-controlled and has a two-colour light emitting diode (LED) to communicate the operation status and the error diagnostic.

## FUNCTIONAL GRAPH



Dimensions (mm)

## PRODUCT SURVEY



<b>140263</b>	<b>DOL 104 HUMIDITY SENSOR 0-10V</b>
<b>140274</b>	<b>DOL 104 HUMIDITY SENSOR 0-5V</b>
<b>140275</b>	<b>DOL 104 HUMIDITY SENSOR 0-3V</b>



<b>140298</b>	<b>DOL 114 PROTECTIVE CAP 5 PCS.</b>
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<b>380101</b>	<b>BRACKET FOR DOL 14/15/114/16/104</b>
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## TECHNICAL DATA

<b>Measuring range</b>	0 – 100 % RH	
<b>Accuracy 1</b>	0-10 V	± 2% RH (40–85 %) ± 3% RH (10-95 %) at 0-40 °C
	0-5 V	± 3% RH (40–85 %) ± 4% RH (10-95 %) at 0-40 °C
	0-3 V	± 3% RH (40–85 %) ± 4% RH (10-95 %) at 0-40 °C
<b>Output signal</b>	0-10 V	0.1 V / % RH
	0-5 V	0.05 V / % RH
	0-3 V	0.03 V / % RH
<b>Time constant T<sub>63</sub></b>	20 s at 0.5 m/s air velocity	
<b>Supply Voltage</b>	11 – 30 V DC	
<b>Supply Current</b>	12 mA no load	
	35 mA max. load	
<b>Load</b>	> 500 Ω - < 10 MΩ	
<b>Recommended load</b>	≥ 100 kΩ	
<b>Output current</b>	20 mA (current limited)	
<b>Output impedance</b>	< 1 Ω	
<b>Temperature, operation and storage</b>	- 40 °C – 60 °C	
<b>IP classification</b>	IP 67	
<b>Cable</b>	2 m. 3 x 22 AWG / 0.34 mm <sup>2</sup>	
<b>Max. cable length/</b>	100 m 0.75 mm <sup>2</sup>	200 m 1.50 mm <sup>2</sup>
<b>Shipment weight ex. connector</b>	150 g	
<b>Measure, shipment</b>	275 x 200 x 20 mm	