

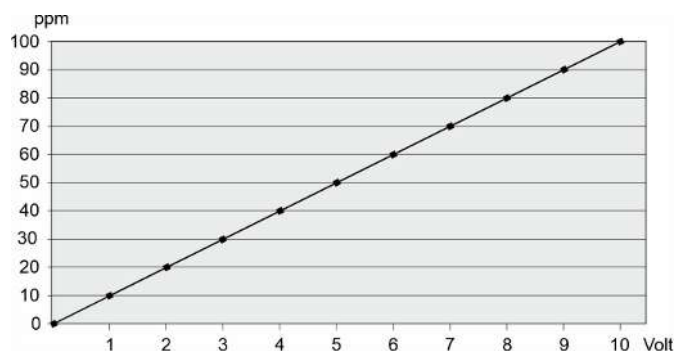
DOL 53

Ammonia sensor



The DOL 53 is an electro chemical sensor designed to measure ammonia levels in livestock houses. The sensor consists of a sensor element, a house and a dust filter. The sensor element (sensor head) and filter can be replaced as required, and the sensor element is supplied in a can for additional protection. Cable is included.

The sensor is meant for stationary mounting for continuous measuring of the ammonia concentration.



Functional graph.

Product survey



140247 DOL 53 Ammonia sensor

DOL 53 measures the ammonia in the house's air.

Can be used for monitoring the ammonia level in the air.



140248 DOL 53 Replacement sensor head

Sensor element for DOL 53.



140236 DOL 53 dust filter (5 pcs.)

Dust filters for DOL 51 and DOL 53. Set of 5 pieces.



140238 DOL 53 protection against water

Kit for protection against water spray for DOL 53.



140284 DOL 53 cable with connector (2 m)

2 meter wire with plug for DOL 53.



140299 DOL 53 – test gas adapter

Used for gas test of DOL 51 and DOL 53.

Technical data

		DOL 53, 0-10V, 0-100 ppm NH₃	
Specification		Parameter	Unit
Output	Voltage range	0 - 10	VDC
NH ₃	Measuring range	0 - 100	ppm NH ₃
	Voltage resolution	0.1	V/ppm NH ₃
	Signal transmission resolution	0.5	ppm NH ₃
	Accuracy	1.5 ppm or $\pm 10\%$ of the measured value	ppm NH ₃
	Long term drift	$< \pm 10\%$ of the measured value	%
	Time constant: T50	≤ 30	sec.
Supply voltage		18 – 30	VDC
Supply current		< 10	mA
Temperature, operation		0 - +50	°C
Temperature, storage		-20 - +60	°C
Humidity		15 - 95	%RH
Pressure		700 - 1300	hPa
Max. storage time (sensor element)	See date on sensor can		
Warranty sensor element		2	years
Expected lifetime of sensor element	Not beyond the date on the sensor element type plate	3	years
IP classification		IP65 (DIN 40050-9)	
Cable length		2	m
Cable conductor size		3 x 0.25 (3 x AWG23)	mm ²
Max. cable length at 0.75 mm ²		100	m
Max. cable length at 1.5 mm ²		200	m
Dimensions (diameter/width)		75	mm
Dimensions (length)		155	mm
Weight		500	g
Approvals		CE UKCA	

Dimensioned sketch

