



Big Dutchman®



NEW!



DOL 53

The first NH₃ sensor for continuous measuring of the ammonia concentration in the house air

DOL 53 – the first sensor for continuous measuring of the NH₃ concentration in the house air

DOL 53 is an electrochemical, long-term stable NH₃ sensor developed by the company Dräger. The sensor is very robust and well-suited for use in livestock facilities.

The Big Dutchman group is the first and only equipment supplier offering this sensor.

DOL 53 permanently monitors the ammonia concentration in the house air, thus permitting the house climate to be controlled based on the sensor's measurements. Our climate computers ViperTouch and 307pro can receive and process the data provided by the sensor to regulate the house climate according to

the measured values. Additionally, the AC Touch alarm unit can record the data and use BigFarmNet to analyse them. If you need further options of viewing the measured values, please contact our sales staff.



NH₃ measuring at an OptiSec dryer



Measuring the NH₃ concentration in the exhaust air (with a separate display for testing purposes)

DOL 53 provides exact figures on the NH₃ concentration in the house air at all times so you can immediately take suitable measures to reduce the ammonia content

when necessary. Because only healthy animals can show their full genetic potential!



The advantages at a glance

- ✓ exact and continuous measuring of the NH₃ concentration in the house air;
- ✓ measuring range covers concentrations typical for livestock production;
- ✓ easy integration into existing houses and their climate control systems;
- ✓ robust and reliable;
- ✓ easy to install;
- ✓ analogue 0 to 10 V output.

Technical data

- Measuring range of the sensor
- Accuracy
- Power supply
- Current consumption
- Temperature range
- Humidity
- Dimensions (WxHxD)
- Weight
- Protection rating
- Service life

0 to 100 ppm NH₃
 1.5 ppm or ± 10 % of the measured value
 Rated voltage 24 V (15 to 30 V DC)
 < 10 mA
 0 to 50°C
 15 to 95 %
 100 x 200 x 50 mm
 450 g
 IP 65
 3 years from commissioning
 (expiry date: see label on the sensor)



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