

DOL 53 ammonia sensor

An award-winning ammonia sensor that can help you earn up to 2,500 EUR extra per batch.

Improve livestock welfare and reduce mortality

Studies* have shown that high ammonia concentration in broiler production results in a higher FCR, lower gain and lower welfare and therefore have a major impact on the financial yield of the production. In fact, ammonia concentrations as low as 25 ppm can reduce bird weights at 28 days of age by 2-7% while 50 ppm ammonia has been shown to reduce bird weights from 16-19%.

Early action benefits the welfare and productivity of the broilers, which is why, it is highly beneficial to continuously monitor the ammonia level.

Research in this area** shows that an increased concentration can cut profits by 2,500 EUR or more per batch in a livestock house with 25,000 broilers.

DOL 53 is an ammonia sensor specifically designed for continuous measurement of ammonia (NH₃) concentration in livestock houses. The sensor can accurately measure the level of ammonia in both low and high concentration and has a negligible cross sensitivity to other gasses.

*Source: "Ammonia in the Atmosphere during Brooding Affects Performance of Broiler Chickens"; F. N. REECE, B. D. LOTT, and J. W. DEATON and "Poultry Housing Tips", Volume 32, No. 1, University of Georgia

**Source: "Atmospheric Ammonia Is Detrimental to the Performance of Modern Commercial Broilers"; D. M. Miles, S. L. Branton and B. D. Lott

Benefits

- Increase profits by at least 2,500 EUR per batch
- Avoid higher FCR
- Better animal welfare

Advantages

- Highly accurate measurement
- Negligible cross sensitivity to other gasses
- Works in both high and low NH₃ concentration
- Robust and well-suited for livestock facilities
- Easy to install and plug and play replacement
- Requires no calibration during service life
- Low maintenance
- Long lifetime
- Integrates easily into existing houses and climate control systems

