dol SENSORS

DOL 53 ammonia sensor

An award-winning ammonia sensor that can help you earn up to $3,000 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 $3,000 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.

Benefits

- Increase profits by at least $3,000 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

*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