

**Earn EUR  
2,500 extra  
per batch**

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**An increased concentration of ammonia has a major impact on the revenue of your broiler production.**

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

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

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### **WHY MEASURE AMMONIA?**

The CO<sub>2</sub> level is a very good indicator of the air quality in the livestock house. The level of ammonia in the air is also an indicator of the litter quality. The litter quality has significant influence on the production results.

It is a known fact that there is a close link between good litter, a uniform distribution of the broilers and good production results.

### **YOUR NOSE IS NOT GOOD ENOUGH!**

The ammonia level will in a livestock house with proper litter management be somewhere between 10 and 15 ppm, when the concentration is at its highest.

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The impact on the litter increases significantly during the 2nd and 3rd weeks, when the broilers' gain accelerates.

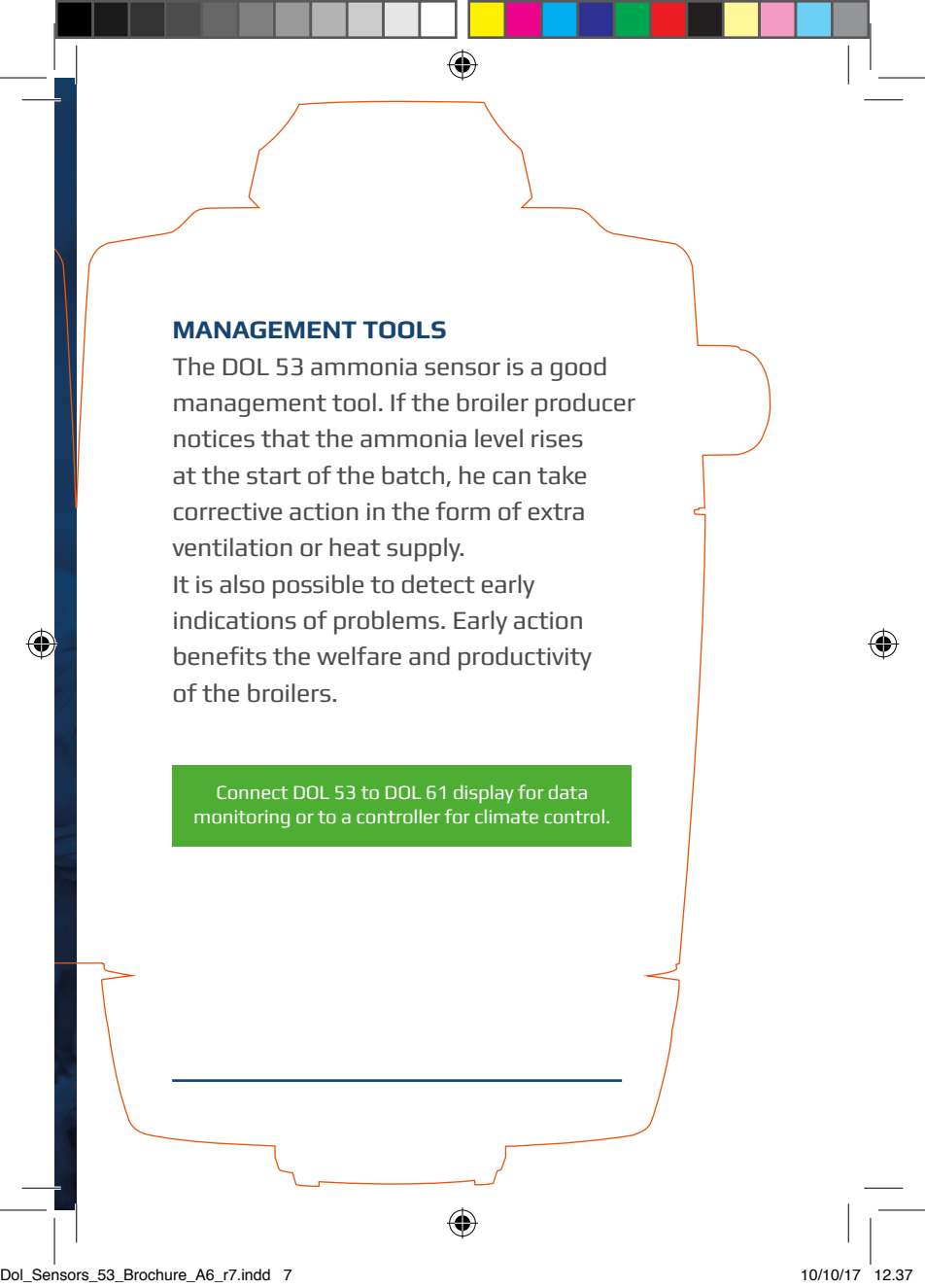
It is hard to assess whether the ammonia level is 20 or 40 ppm if you do not have measuring devices. But there may be a significant effect on the production results if the ammonia concentration is too high. An increased ammonia concentration may result in a higher FCR, reduced gain, as well as lower welfare of the broilers.





**A too high  
ammonia  
concentration  
results in a  
higher FCR,  
lower gain  
and lower  
welfare.**

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## MANAGEMENT TOOLS

The DOL 53 ammonia sensor is a good management tool. If the broiler producer notices that the ammonia level rises at the start of the batch, he can take corrective action in the form of extra ventilation or heat supply.

It is also possible to detect early indications of problems. Early action benefits the welfare and productivity of the broilers.

Connect DOL 53 to DOL 61 display for data monitoring or to a controller for climate control.



## About dol-sensors

dol-sensors develops, produces and markets capacitive sensors, climate sensors and weighing components. The products are primarily used for automated tasks within the agro-industry and the feed industry, and over the past 40 years dol-sensors has developed its range of sensors together with leading companies in this field. We put great emphasis on testing our products throughout the development process, which ensures robust and reliable products with an extremely low failure rate.

Read more at  
[www.dol-sensors.com](http://www.dol-sensors.com)