

DOL 53 for improved  
environment &  
production.



# DOL 53

## Ammonia & Climate sensor

The highly negative effects of high ammonia concentration in livestock production are well known, and with the introduction of the DOL 53 farmers are now finally able to track the ammonia concentration continuously and take corrective actions, if ammonia levels increase. The DOL 53 features accurate ammonia measurements in both low and high concentrations, negligible cross sensitivity to other gasses and a long lifetime without the need for calibration. The DOL 53 can be mounted inside the livestock house, without any need for tubes or pumps.

### Information

### Specifications

Power supply	Rated voltage 24 V (15 V to 30 V DC); DC < 0.2 Vss
Current consumption	<10 mA
Signal transmission to the control unit	0 V to 10 V corresponds to 0 to 100 ppm
Detection range	0 to 100 ppm NH <sub>3</sub>
Accuracy	1.5 ppm or ±10% of the measured value
Response time T <sub>50</sub>	≤30 seconds
Long-term drift	< ±10 % of the measured value/year
Cable type	3-wire
Temperature range, operation	0 °C to + 50 °C (32 °F to 122 °F)
Humidity, operation	15 %RH to 95 %RH
Dimensions WxHxD	100 mm x 200 mm x 50 mm
Weight approx.	450 g
Chemical resistance	Typical detergents, disinfectants, alcohol, surfactants, peracetic acid, soap
Protection class	IP 65
Approvals	CE