



# DOL 539 Climate and Production Computer

Flexible climate and production control for poultry



Climate for Growth

The DOL 539 climate and production computer is a new generation of house computers which sets new standards for user-friendliness and quick access to data processing. The house computer has a large graphic display which also serves as touch screen when navigating in the menu options of the house computer. Likewise, the DOL 539 house computer is LAN based and has thus the possibility of direct connection to FarmOnline® via a 100 Mbit Ethernet.

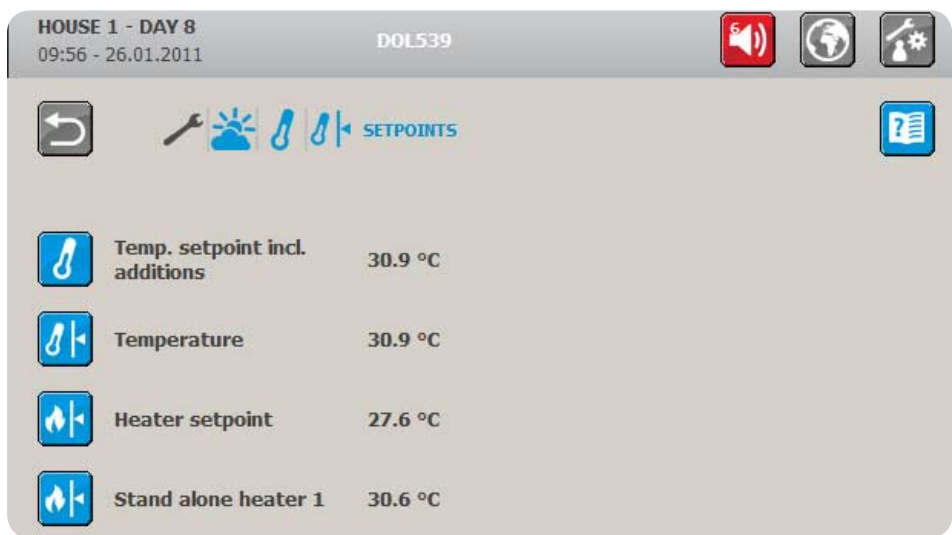
## Navigation via screen

DOL 539 is equipped with a large graphic touch screen enabling navigation in the program via icons on the screen. The menus are simple and logically designed including optional choice of personal shortcuts on the front page. Functions used daily are thus at the top level in the menu structure.

You can create a start page for the daily user including up to six shortcuts to the menu and a start page for the advanced user including up to 16 shortcuts.



Examples of start pages for daily user and advanced user respectively



Importance has indeed been attached to the menu structure and to use icons instead of or in combination with text. This ensures recognisability for the user and makes the computer easy to operate in the daily routines - also for a user whose reading proficiency is less good.

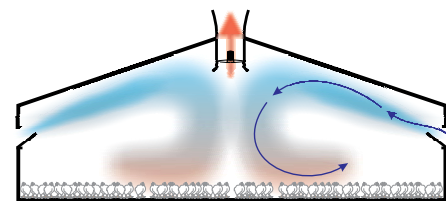
The screen is a large graphic display providing plenty of possibilities to show graphs, such as batch and trend curves.

## DOL 539 climate functionality

The software and hardware of the DOL 539 climate computer are built on a modular principle so the producer's actual requirement is always covered through the optimum composition with due regard to climatic conditions and production.

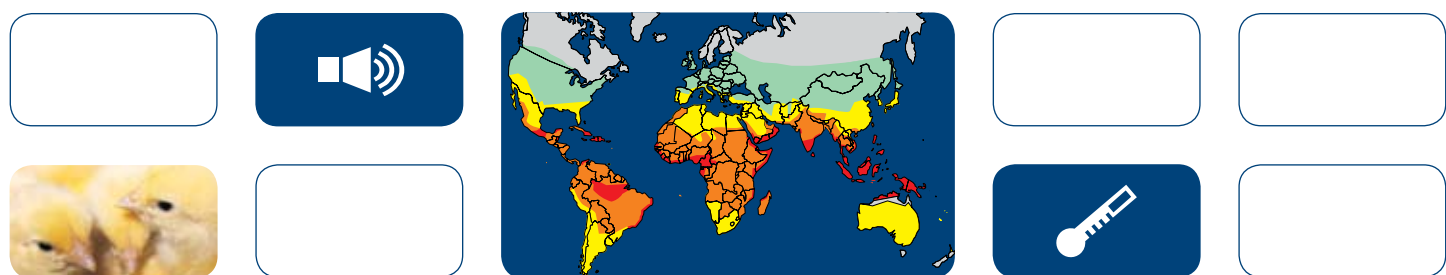
### DOL 539 LPV

DOL 539 can control the climate according to the LPV principle (Low Power Ventilation) which is most often used in the temperate parts of the world. The fresh air is directed into the house through either wall or ceiling inlets and the air outlet is conducted through wall fans or exhaust units in the roof.

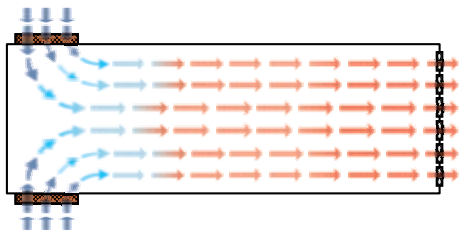


### DOL 539 Tunnel

DOL 539 can also control the ventilation according to the Tunnel principle, which is used in the tropical parts of the world. The air inlet is conducted through cooling



pads at one end and the air outlet through large gable fans at the other end of the house. A cool airflow is created lengthwise in the house.



### DOL 539 Combi-Tunnel

Furthermore, DOL 539 can integrate both the LPV and Tunnel principles in one intelligent Combi-Tunnel ventilation system, which is the optimum solution in the subtropical parts of the world. DOL 539 ensures optimum conditions for the birds by making the ventilation dependent on the outside temperature and the age of the birds. At low outside temperatures, the system ventilates according to the LPV principle and at high outside temperatures according to the Tunnel principle.

### Precise control - improved gain

Hardly any climate computers on the market make use of the PID control technology - DOL 539 does. This type of regulation makes sure that climate parameters are precisely and reliably brought to their set levels and kept there. PID control increases productivity, as a constant climate provides the best conditions for the animal to thrive.

### Low power consumption for ventilation

DOL 539 controls the air outlet by means of the MultiStep® principle. This regulation principle reduces the power consumption and provides the most correct control of the air intake. DOL 539 controls the stepless fan from 0 to 100%. At 100% ventilation, MultiStep® connects the next fan at 100%, after which the steplessly controlled fan starts all over again at 0%.



## DOL 539 - production functionality

The DOL 539 production functionality is available in two modules with different functionality levels. Simple production functionality or production functionality with the possibility of mixing several feed components.

### DOL 539 production module

The DOL 539 production module can handle all basic functions needed in connection with poultry production.

The weighing function for broilers presents data concerning gain and deviation in relation to the average weight. The current weight can be compared with reference data.

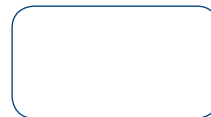
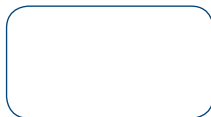
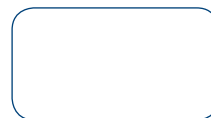
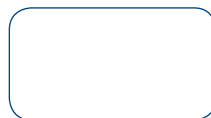
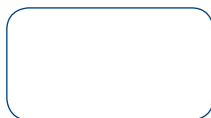
DOL 539 can control feeding activated on preset dates by means of a 24-hour clock.

The house computer handles weighing of feed by DOL 99B feed weigher or electronic weighing of silos.

Birds are weighed on the DOL 98B poultry weigher or on the DOL 94 platform weigher. The weighers are very accurate and reliable. Four weighers can be connected per livestock house enabling separate weighings of males and females.

The water consumption is summed up in m<sup>3</sup>/bird. To facilitate the comparison with previous days, the water consumption is likewise summed up in percentages. The DOL 539 also includes light control (on/off) and light intensity.

Registration of stocked, depopulated and dead birds is carried out on the DOL 539 computer.

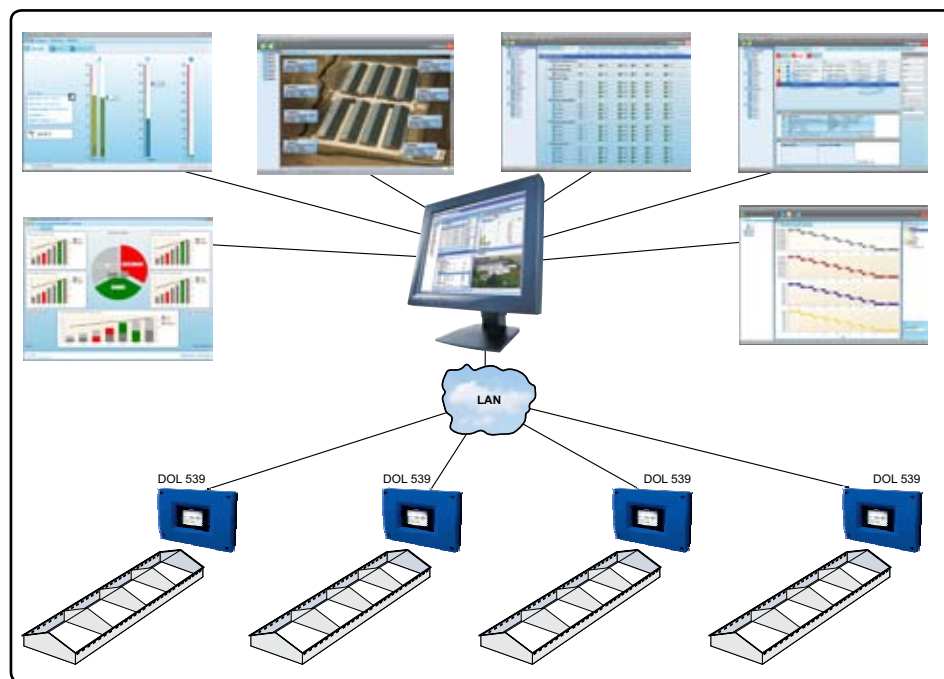




### DOL 539 production module including mixing of feed

The DOL 539 production module including mixing of feed provides the possibility of mixing four feed components. The mixing of feed is based on an advanced feed program that also registers the quantity of feed consumed. DOL 539 works together with the DOL 99B feed weigher which is known for its high accuracy and great reliability. The computer can handle gradual changes of four different feed components.

The production module including mixing of feed integrates a program for restricted feeding as well as wheat feeding. The program can be used for both pan and chain feeding. With this module, it is also possible to supply a separate quantity of feed and mixture to up to nine destinations in one livestock house; for instance six feed chains for females and three rows of feed pans for males.



*The new generation of SKOV house computers is LAN based and has direct access to FarmOnline®*

### FarmOnline®

The DOL 539 computer stores all data for seven days. FarmOnline® is used for overview and analysis of historic data to which DOL 539 has direct access via a built-in LAN module.

FarmOnline® can carry out numerous analyses of the production through the climate and production modules of the management system. The analyses can help the producer optimise the productivity.

FarmOnline® also makes it possible for the producer to react immediately to alarms and, if required, change the DOL 539 house computer setup. When an alarm is generated, the producer can make an immediate and qualified intervention. Immediate action may ensure the welfare of the animals as well as reduce or completely prevent financial losses.



SKOV supply climate and production management systems for animal production the world over. Our solutions are technologically advanced, user friendly and individually adapted to meet the needs of our customers.

SKOV A/S • Hedelund 4 • DK-7870 Roslev  
Tel. +45 72 17 55 55 • info@skov.com • www.skov.com

20110630 • ©2011, SKOV

**SKOV**  
Climate for Growth