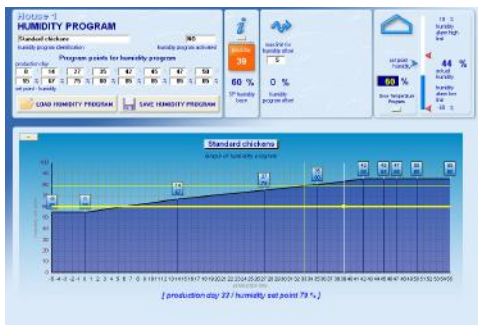
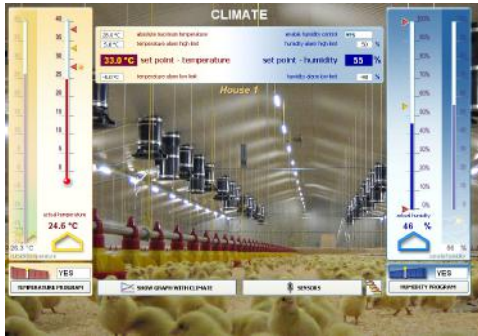




# Electronics

# ACS.net

## Transparency and traceability in your production



ACSnet is an easy to grasp management system for use in the poultry sector. The system is very illustrative in design and gives a good overview in the daily work routines. The system brings security to your organization because each person is only allowed access to the system in accordance with his qualifications.

### Tailor made solutions

ACSnet can be tailor made to each person in the organization so that they have own personal password that needs to be entered to get access to ACSnet. Via this password the system automatically defines the platform for the user – preferred language and level of access to the ACS controllers. This ensures simplicity in operation and allows for each person to “grow” with the system. As each person becomes acquainted with the system, new access levels can be defined that allow more accessibility to the system.

### Multiple users

Via the ACSnet software you have access to all ACS controllers in the network, and from here you can distribute and collect data within this network. If the network is connected to the internet you will naturally be able to connect to the system anywhere internet is accessible. More users can work on the system at the same time, and since the ACS controllers work with up to 16 different languages simultaneously, the system is accessible for nearly everybody who has security clearance. This brings transparency and safety on all levels within the organization.

### Data security and traceability

All alarms and relevant process data is automatically logged in a database and information can be collected any time for further analysis. From these information all authorized persons will be able to trace all events that is related to the production. This brings safety to the production and simplifies communication between the employees in the production, technicians and people from the administration.

Access any time  
from everywhere...

on iPad

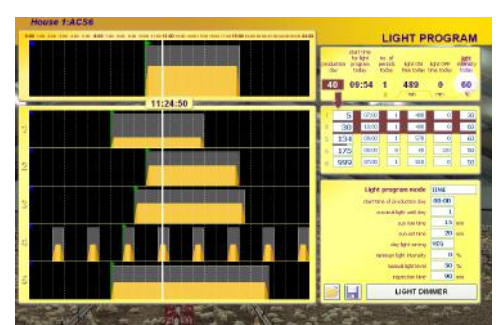
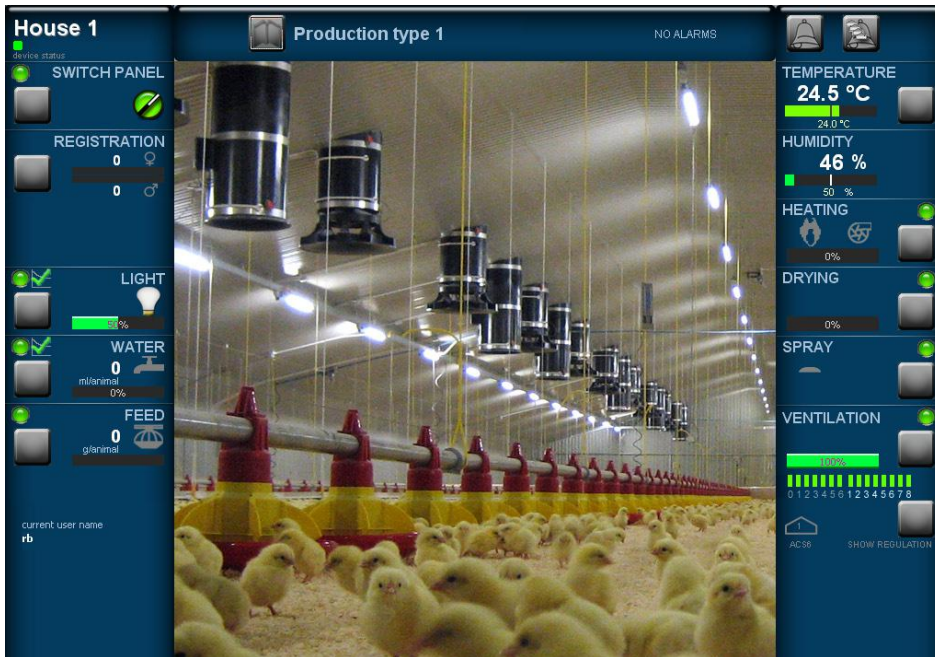


on smart phone

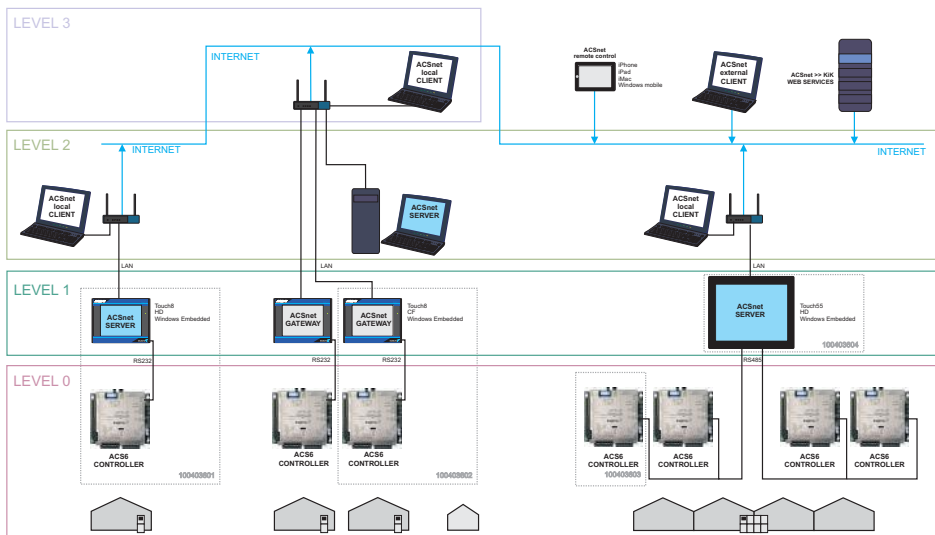


on HDTV





### ACSnet COMMUNICATION SYSTEM STRUCTURE





## Flexible climate controller

New advance climate control features in the ACS2 optimize the climate control process in the house. The software in the ACS2 determine the "dehumidification potential" in the house and automatically stops the dehumidification process if useless. The result is a 30% cut in heat consumption and an overall improvement of the in-house climate. An advanced software that makes climate control much easier.

### Stable climate

The ACS2 does not only cut the heat consumption by 30%, it also has significant effect on the in-house climate. A stable in-house climate is essential in any house for livestock and will benefit production results in a positive way. When if full control of the dehumidification process in-house problems caused by excess heating/ventilation is no longer an issue. The ACS2 will help you stay focused in your effort to improve the production figures.

### Stay on top of your production

The flexibility and power of the ACS2 makes it suitable for controlling any type of ventilation, heating or system for cooling for livestock facilities. The ACS2 climate controller can be updated with new software in that will help you stay on top of your production. This update of software can be done via the internet, so you will always be able to update your ACS2 controller with the latest climate control features. With up to 16 different languages accessible simultaneously the ACS2 can be served by almost anyone in his preferred language.

### Traceability

The ACS2 keeps track of all parameters and users for an indefinite period of time. The ACS2 screen menu can be defined specifically to the needs of each person allowed access, so unskilled persons will never be able to enter menus where critical parameters can be adjusted. An important feature for large scale operations, since each and every employee only has access to parameters concerning his function.



### Technical Specifications

Connections	SW	HW	Description
Sensors	32	7	4 temperature and humidity sensors, outside temperature, outside humidity, static pressure, forward and return temperatures for hot water radiators
Analog outputs	32	6	Individual baffle positioning on inlet and outlet fans, wall inlets, exhaust fan speed, inlet fan speed control, analog heat control, light dimmer control
Digital outputs	128	12	Heat control, humidity control, multi stage ventilation control, lights and additional programmable timers and on/off controls
Digital inputs	128	8	Feed weighing, water meter, gas meter, electricity meter, alarms from fuses and motor protectors, drinking systems, heat and ventilation system
Communication		3	Terminal, FlexAirBus, local network to ACSnet server
Users / languages			Managed by farm manager 16 simultaneous languages, including Cyrillic letters
Archive		4	Continuous logging of all events, including input, alarm registration, daily reports





## Flexible controller for poultry houses

### Flexible solution for poultry houses.

The new ACS6 climate and production controller is the sixth generation of high end climate and production controllers for the poultry industry from DACS. Thirty years of experience and knowhow from the industry, together with the latest trends, makes the ACS6 a power full package for climate control in poultry houses and enable farmers to optimize even more on the in-house climate and production.

### Cutting heat consumption by 30%

Full scale tests conducted show that the in the ACS6 enable farmers to cut heat consumption in a standard poultry house by 30% - simply via new soft ware solutions that determine the "dehumidification potential" on the basis of inside and outside climatic conditions, and ensure a much gentler and more energy efficient drying process in a poultry house. Threby the ACS6 climate and production controller automatically eliminates this excess heat consumption - and many frustrations over wasted money.

### Traceability

The ACS6 keeps track of all parameters and users for an indefinite period of time. The ACS6 screen menu can be defined specifically to the needs of each person allowed access, so unskilled persons will never be able to enter menus where critical parameters can be adjusted. An important feature for large scale poultry operations, since each and every employee only has access to parameters concerning his function in the poultry production.

### Any type of ventilation

The ACS6 is extremely powerful and designed to run any type of ventilation system for poultry production. Via the ACSnet management system any ACS6 climate and production controller can be accessed via the internet - but only with passwords. When online parameter can be adjusted in accordance with his function in the poultry production.



Technical Specifications				
Connections	SW	HW	EXT	Description
Sensors	32	10	0	4 temperature and 2 humidity sens., outside temperature and humidity, static pressure, egg store, extra room, e.t.c.
Analog outputs	32	8	0	dampers for inlets and exhaust ventilators, wallvents, speed control, analog heating, light dimming...
Digital outputs	256	28	288	Heating, drying, ventilation stages, 4 silos, 2 feeding systems, timers, 5 light groups...
Digital inputs	256	16	224	2. feed weighers, watermeter, alarm for every fuse, energy consumption, egg counters,....
Communication	4	4	1	Touch8 / local network ACSnet-server, FlexAirBus, PLC,
Laanguages				UNICODE / can use all alphabets
Archives		6		all events, alarm daily reports.....



# Electrical panels


An electrical panel is the centre of the electrical installation in a poultry house. The panel is the terminal point for all the cables that transmit signals, distribute power to the fan motors, feeder lines, etc. The panel contains motor starters, battery backup systems, fuses and relays, as well as the ACS climate and production controller and other auxiliary electrical equipment. Generally speaking, the panel is the "control room" from which all functions can be monitored.

The advantage you get from installing a panel is that you only have to run cables from the panel to the equipment in the house – ventilators, heaters etc. All internal wiring in the panel has been done by professionals here at DACS, so you just need to run the cables and connect. This saves you the time consuming task of connecting internal signal transmission cables, installing power supplies and backup systems, and it greatly simplifies the installation work and increases the level of electrical safety and equipment protection. The panel offers a high degree of safety and facilitates service jobs on any part of the electrical installation

All components in the panels manufactured by DACS are documented and carefully described in the complete set of documents that comes with the panel. In this set of documents you also have a complete list of the types of cables that should be used for the complete wiring between panel and equipment in the house, and where to connect the cables. In other words, you get a panel and a detailed set of information that will enable any skilled electrician to complete the electrical installation swiftly and professionally and it takes your entire installation to a higher level of quality.

A panel from DACS has been designed and tested according to European Standards. No panels leave our workshop without thorough testing.

CONST.	DATE	ORDER NO.	REV.	DESCRIPTION	REV.	DATE	BY
DRAWN	SHEET	FILE NO.					

 010000 - 001000101 - 0001000 - 0110000 - 000  
 1000000 - 0000000 - 0000000 - 0000000  
 PHONE : +45 75711022 / FAX : +45 75711010



## Automatic poultry scale



The PS1 automatic poultry scale comes in a 50 kg and a 100 kg version, making the system equally suitable for chicken broilers and turkeys.

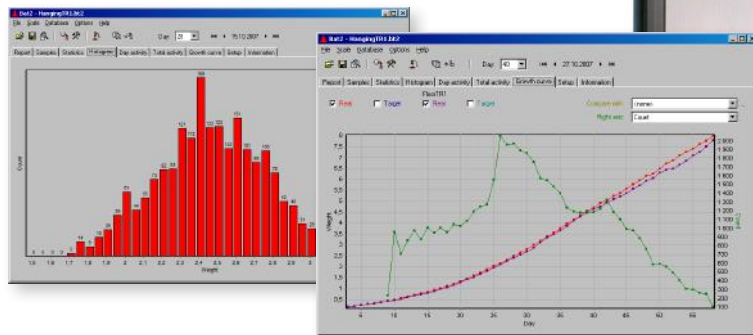
### Accuracy and reliability

The PS1 hangs freely, suspended from the ceiling. Hence all electronic components are well protected, away from dirt and moisture. The unit is connected to the power supply and communication line by means of a quick connector, making it easy to disconnect and remove the scale box during cleanout.

With over one year of data memory, it will take into account any body weight from D1 to the slaughtering. It will calculate automatically all statistical data (average body weight, standard deviation, CV, uniformity, daily gain, number of birds weighed by day) with up to 1800 samples recorded every day. Histograms can be read directly on the display.

### Communication via ACSlink or GSM

The scale can be installed in any building and has just to be plugged on the mains and the optional communication cable. The data transmission system will send you the data by GSM modem directly on your mobile phone, via wired connection to the ACS production computer, via Modbus to a PC, or you can collect data simply by using the memory chip system directly on the scale. The memory chip system allows for advanced editing of collected data, as well as copying the scale's setup from one unit to another.



# Company profile

*DACS A/S is a family owned business, based in Denmark, established in 1982.*

*DACS produce ventilation systems, climate and production controllers, weighing systems and management systems for the agricultural business.*

*We see a close link between in-house environment, animal welfare, and profitability. Hence we base our engineering and development on the latest research and combine it with a company tradition for high quality products and a strong focus on animal welfare.*

*Our customers demand reliable, up to date solutions that help increase profitability. The balanced ventilation system from DACS is one example of a well engineered, profitable system, offering potential savings on heating costs of up to 50 % compared to other systems - and yet a superior in-house environment every day of the year.*

*We operate globally.*

[www.dacs.dk](http://www.dacs.dk)



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