

**FarmOnline+**  
**Farm management**  
**Technical Info**



**FarmOnline+**



## 1 Product description

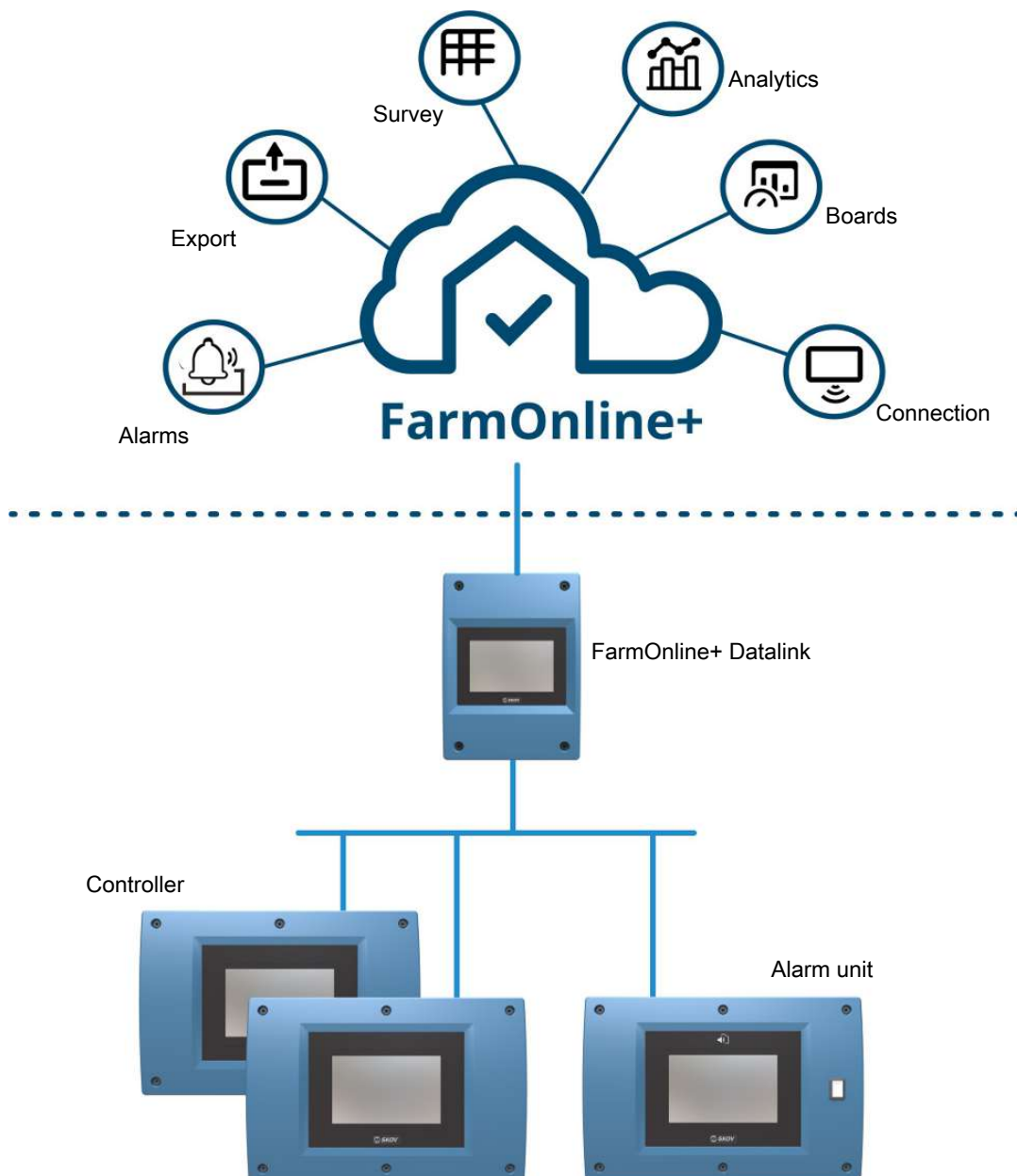
FarmOnline+ is a cloud-based farm management solution that provides the user with access to, e.g., current farm data and alarms via the Internet and the possibility of remote control of **SKOV** controllers for pigs and poultry and **SKOV** alarm units.

With a cloud solution, data can be accessed from anywhere via a standard internet browser (e.g., Microsoft Edge) or the FarmOnline+ mobile app. There is no longer a need for a PC on the farm for farm management solutions.

Data is delivered to the FarmOnline+ cloud via a **FarmOnline+ Datalink**.

**FarmOnline+** can also be used via a mobile app. It is intended for daily monitoring of a number of pre-determined key values and for receiving alarms and alerts from controllers and alarm units depending on the subscription type.

The mobile app also allows remote access directly via the **Remote Access** function. This makes it possible, for example, to acknowledge alarms directly on the cell phone (except from **Simple Farm Management Poultry**). The mobile app is not a replacement for an alarm unit. Alarm notifications from the app are only a supplement. For example, you will not be able to get a notification of missing network connection if the network is down.



## 1.1 FarmOnline+ subscriptions

The FarmOnline+ solution consists of a number of applications that you can subscribe to. The applications can be combined to meet different needs.

- Different subscriptions provide access to a variety of applications.
- You must take out a subscription to each house/section.
- Subscriptions are valid for 12 months and are automatically renewed.
- Each subscription is individually adapted to the individual customer and is delivered electronically via the customer's user login in the MySKOV portal.

There are 3 types of subscriptions for FarmOnline+.

- The basic subscription is the core of FarmOnline+. It provides access to climate and production data at different levels - section, house, farm, and several farms associated with the same company.
- The add-on subscription is additional features that are added to the basic subscription.
- The stand-alone subscription is features that can be used without the basic or add-on subscription.

### Benefits of a cloud and subscription solution:

- Storage of data
- Highly managed IT security
- Backup service
- Data is always available
- Multiple simultaneous logins
- New features continuously without additional purchases
- Very stable and reliable uptime
- Monitoring to ensure uptime
- Automatic security updates

### Remote Access

Enables Remote Access for viewing data and operating networked controllers, alarm units, and datalinks, as well as acknowledging alarms.

Also enables service technicians or supervisors to instruct and guide daily users in operation and the ability to perform service and problem-solving without being physically present on the farm.

## 1.2 Subscription for poultry

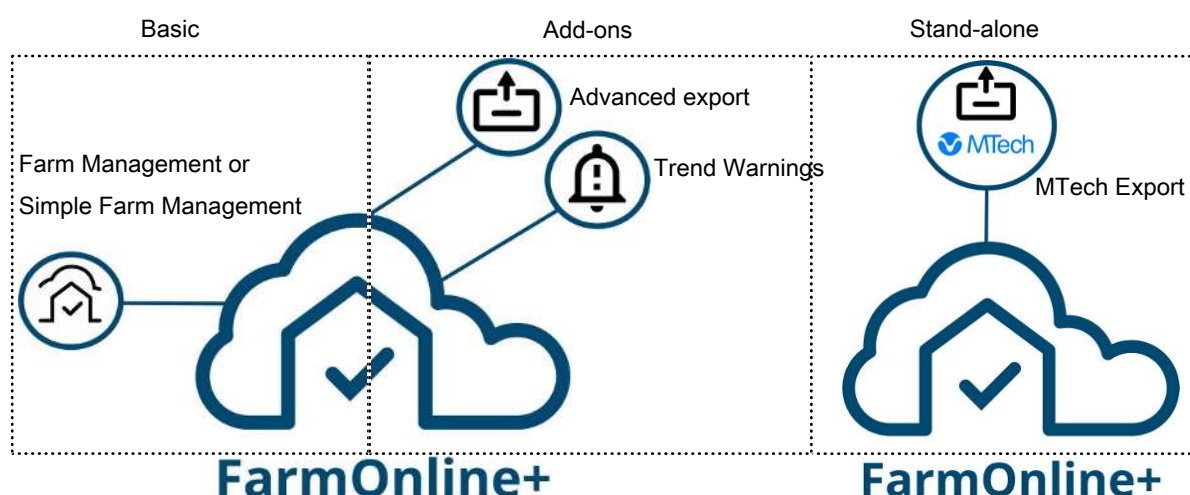


Figure 1: Examples of subscription types

The farm management subscription is available in 2 variants for poultry (Farm Management and Simple Farm Management), each including different applications.

Basic subscriptions	Farm Management	Simple Farm Management
Boards	X	
Survey	X	X
Analytics	X	
Alarms	X	X
Silo	X	
Reference	X	
Export	X	
Connection	X	X
Remote Access	X	X
Mobile App	X	X (without push notifications)

### 1.2.1 Farm management poultry

#### Boards

Allows you to monitor how the production is progressing. It can display values from the company level down to the section level.

When changing the status from green to red, it is easy to get an overview of all farms and then see which farm is in red status and further to the house or section level. At the bottom level, the development of the last 7 days is shown.

#### Survey







Climate and production data are displayed in a table view and in a curve view.

The key values of the batch can be compared across houses and farms as well as historically.




Different filters can be used to view data. As many different tables as necessary can be set up. The tables are automatically saved when changes are made.

#### **Overview**

Sorting rows in the table allows you to see where the deviation from the selected reference is greatest/least.

	<p><b>Analysis</b></p> <p>Setting different key values against each other enables identifying potential problems or preventing issues.</p> <p>Combining key values and batch comparison can be used to find best practices.</p>
 <b>Analytics</b>	<p>In-depth analysis and troubleshooting tool.</p> <p>Report function has historical data that allows batch comparison.</p> <p>All key values are available for the reports, which can display up to 20 key values at a time.</p>
 <b>Alarms</b>	Viewing alarm history and handling push notifications.
 <b>Silo</b>	Display of the overview of silos and their contents.
 <b>Reference</b>	<p>Reference profiles from selected breeding companies. They make it easy to measure and compare productivity.</p> <p>The references can be customized to your own preferences.</p>
 <b>Export</b>	<p>Simple export with a predefined setup of the most common data from the farm, e.g., average temperature - per day.</p> <p>Ability to export data 4 times a day.</p>
 <b>Connection</b>	<p>Setup and configuration of the farm with houses and sections.</p> <p>Monitors the connection to the farm and the incoming data stream.</p>
<b>Mobile app</b>	<p>Displays required climate and production data.</p> <p>Allows you to get alarms that are acknowledged via <b>Remote Access</b>.</p>

## 1.2.2 *Simple farm management*

 <b>Survey</b>	<p>Climate and production data are displayed in a table view and in a graph view.</p> <p>The key values of the batch can be compared across houses and farms as well as historically.</p> <p>Different filters can be used to view data. As many different tables as necessary can be set up. The tables are automatically saved when changes are made.</p> <p><b>Overview</b></p> <p>Sorting rows in the table allows you to see where the deviation from the selected reference is greatest/least.</p> <p><b>Analysis</b></p> <p>Setting different key values against each other enables identifying potential problems or preventing issues.</p> <p>Combining key values and batch comparison can be used to find best practices.</p>
 <b>Alarms</b>	Viewing alarm history and handling push notifications.
 <b>Connection</b>	<p>Setup and configuration of the farm with houses and sections.</p> <p>Monitors the connection to the farm and the incoming data stream.</p>

## 1.2.3 *Add-on subscriptions for poultry*

All add-on subscriptions require a Farm management subscription.

 <b>FarmOnline+ poultry, advanced export</b>
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Setting up automatic data transfers allows you to integrate farm data into an ERP system, production planning system, or any other system.

Advanced export can be set up to transfer as much or as little data as needed to one or more recipients, such as MTech Sonar, SAP, or PowerBI.

Data transfers are secure and password protected.



#### **FarmOnline+ poultry, Broilers Trend Warnings water+feed**

For broiler producers only.

Trend Warnings analyze whether the broiler batch's feed and/or water consumption develop as expected. It takes into account the production level of the current batch and is thus more advanced than the traditional comparison of feed and water consumption with standard reference curves.

Consumption is displayed in curves, along with production-adapted references and different warning types. The curves are displayed per house and batch.

Warnings for the last 7 days are shown in an overview, so that on farms with multiple houses you can easily navigate to the house(s) with the most warnings.

In the event of deviations, Trend Warnings provides suggestions on how to return to optimal production.

Trend Warnings are based on data from animal feed and water consumption and number of animals. This data must, therefore, be updated reliably and regularly to get the correct benefit of the application. It should only be sold to farms that have feed weighers (DOL 99, DOL 9940) and/or record water consumption using suitable equipment (water meter) and where data is recorded in the controller.

*Customers who do not meet the above should be referred to Global Service/Product Management.*

### **1.2.4 Stand-alone subscriptions poultry**



#### **FarmOnline+ broilers, MTech export**

For broiler producers only.

Setting up automatic data transfers for MTech Sonar.

Automatic export of data (32 key values) 4 times per hour.



#### **Survey**

Climate and production data are displayed in a table view and in a graph view.

Allows you to verify the data sent to MTech Sonar.

## 1.3 Subscription for pig

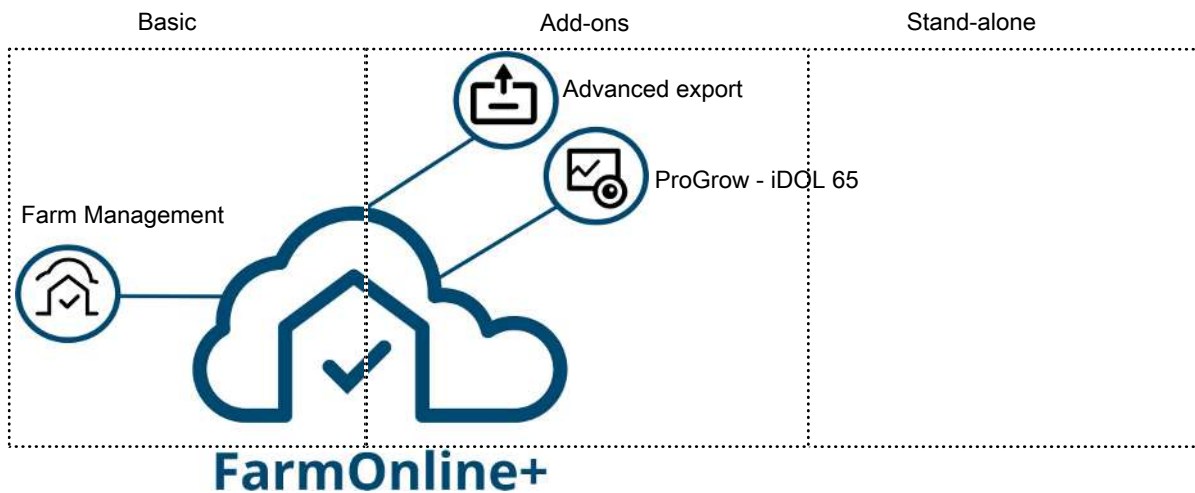








Figure 2: Examples of subscription types

Please note that pig controllers require production software to send data to the cloud.

### 1.3.1 Farm management pig

 <b>Boards</b>	<p>Allows you to monitor how the production is progressing. It can display values from the company level down to the section level.</p> <p>When changing the status from green to red, it is easy to get an overview of all farms and then see which farm is in red status and further to the house or section level. At the bottom level, the development of the last 7 days is shown.</p>
 <b>Survey</b>	<p>Climate and production data are displayed in a table view and in a curve view.</p> <p>The key values of the batch can be compared across houses and farms as well as historically.</p> <p>Different filters can be used to view data. As many different tables as necessary can be set up. The tables are automatically saved when changes are made.</p> <p><b>Overview</b> Sorting rows in the table allows you to see where the deviation from the selected reference is greatest/least.</p> <p><b>Analysis</b> Setting different key values against each other enables identifying potential problems or preventing issues.</p> <p>Combining key values and batch comparison can be used to find best practices.</p>
 <b>Analytics</b>	<p>In-depth analysis and troubleshooting tool.</p> <p>Report function has historical data that allows batch comparison.</p> <p>All key values are available for the reports, which can display up to 20 key values at a time.</p>
 <b>Alarms</b>	<p>Viewing alarm history and handling push notifications.</p>
 <b>Silo</b>	<p>Display of the overview of silos and their contents.</p>
 <b>Reference</b>	<p>Reference profiles from selected breeding companies. They make it easy to measure and compare productivity.</p> <p>The references can be customized to your own preferences.</p>

**Export**

Simple export with a predefined setup of the most common data from the farm, e.g., average temperature - per day.

Ability to export data 4 times a day.

**Connection**

Setup and configuration of the farm with houses and sections.

Monitors the connection to the farm and the incoming data stream.

**Mobile app**

Displays required climate and production data.

Allows you to get alarms that are acknowledged via **Remote Access**.

### 1.3.2 Add-on subscriptions for pigs

All add-on subscriptions require a Farm management subscription.

**FarmOnline+ pig, advanced export**

Setting up automatic data transfers allows you to integrate farm data into an ERP system, production planning system, or any other system.

Advanced export can be set up to transfer as much or as little data as needed to one or more recipients, such as MTech Sonar, SAP, or PowerBI.

Data transfers are secure and password protected

**FarmOnline+ pig, ProGrow (iDOL 65 section)**

Only for sale in Denmark, Sweden, Norway, Spain, and Ukraine (where agreements have been made with feed supplier advisors) and to priority KAM customers who employ feeding experts. For inquiries about markets outside the priority markets and KAM customers, contact the Product Manager or Global Service/Product Management.

Analyzes images from **iDOL 65** cameras mounted over one or more pens in the house and calculates the weight of the pigs.

Provides valuable information about the actual weight of the pigs in a pen and about the spread in the weight of the pigs. Provides a basis for reacting to factors affecting the pigs' weight and daily gain.

**Performance overview**

The animal growth rate is displayed with **ProGrow (iDOL 65)** and the **Camara Manager** application.

## 1.4 Number of subscriptions

The number of subscriptions must correspond to the number of houses/sections to be accessed from FarmOnline+.

A one-house controller requires 1 subscription. A two-house controller requires 2 subscriptions.

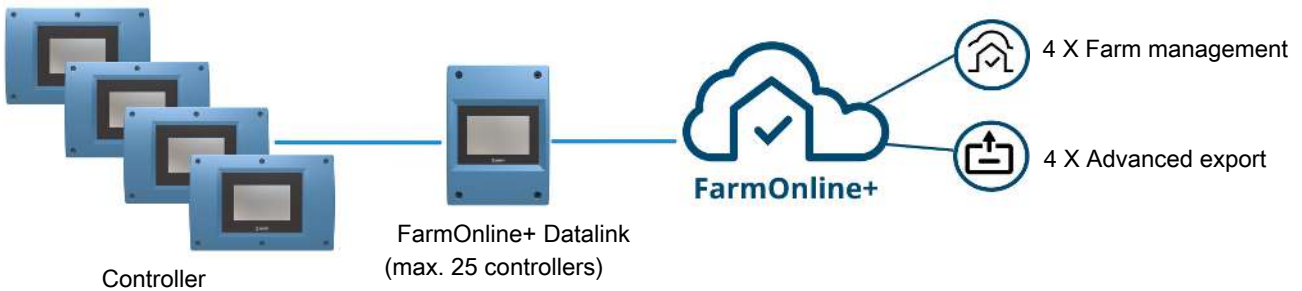


Figure 3: Example of 8 subscriptions for poultry farm with 4 houses.

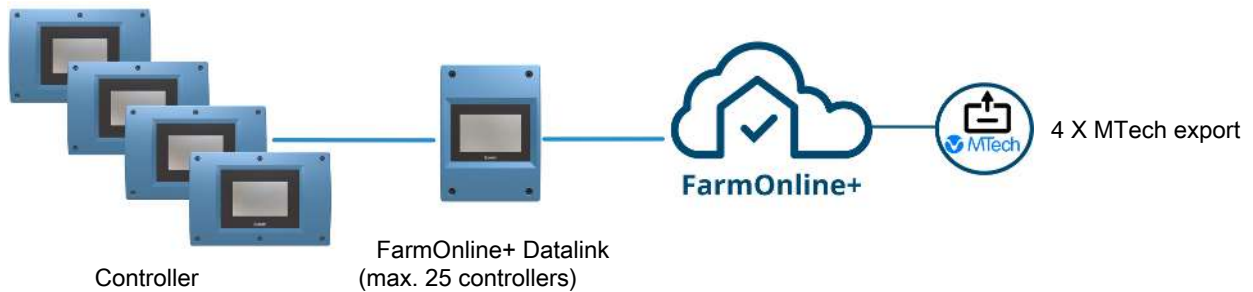


Figure 4: Example of 4 subscriptions for broiler producers with 4 houses.

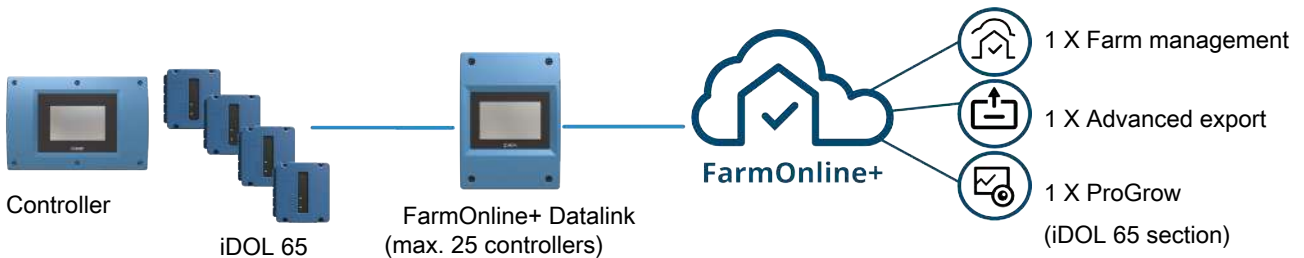


Figure 5: Example of 3 subscriptions for a pig farm with 1 house/section.

## 1.5 Mobile app FarmOnline+

A mobile app for FarmOnline+ is available for iPhone and Android.

The app provides access to selected key values, shows status with colors and can provide notification for alarms and alerts from the controllers and alarm units. It also provides remote access to controller and alarm unit via the Remote Access function.

The app is downloaded for free from the App Store or Google Play.

## 1.6 FarmOnline+ Datalink

FarmOnline+ Datalink is for data collection in various parts of the agricultural industry. It can be automatic collection from SKOV controllers, alarm units, sensors or the user's manual data input. The collected data is then made available to the digital service .

Depending on the type of input provider that can be farm computer, alarm unit or sensor, FarmOnline+Datalink must be installed either as controller gateway or as sensor gateway.

FarmOnline+ Datalink retrieves data from input sensors once every minute and sends the data to the cloud approximately every 15 minutes.

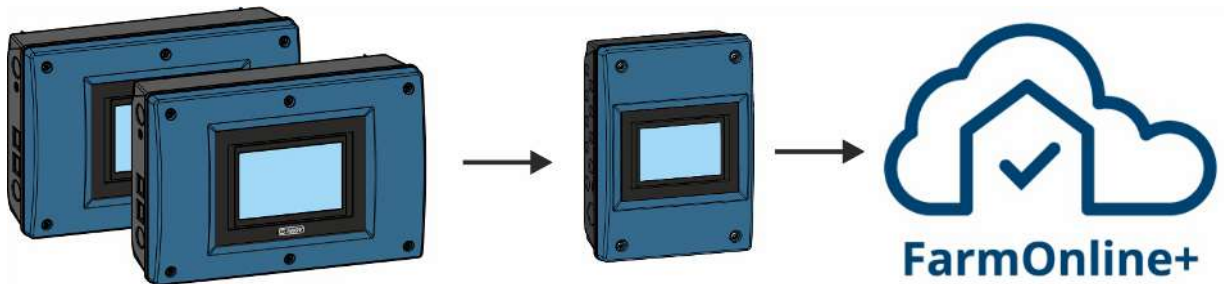


Figure 6: Example of FarmOnline+ Datalink as controller gateway.

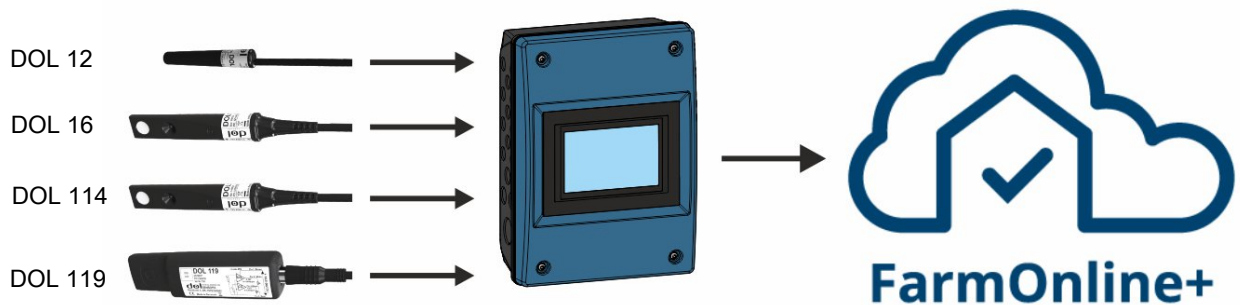


Figure 7: Example of FarmOnline+ Datalink as sensor gateway.

## 2 Product survey

Subscriptions are valid for 12 months and are renewed automatically after that. The due date is set to the month in which the first subscription is activated. If more subscriptions are added after this date, the due date will remain unchanged.

Each FarmOnline+ subscription is precisely adapted to the individual customer and is delivered electronically via the customer's user login in the MySKOV portal.

The Onboarding service must always be purchased.

FarmOnline+ is available in the following languages:

Danish	Spanish	Turkish	Indonesian
English	Finnish	Japanese	Norwegian
German	Swedish	Thai	Serbian
Dutch	Polish	Chinese	Arabic
French	Russian	Portuguese	



### 90019 FarmOnline+ Onboarding digital services

Required basic service which must always be ordered.

Setting up of FarmOnline+.

1 per sale – also by extension.

## 2.1 Farm management subscription poultry



### 130740 FarmOnline+ poultry, farm management 12 months

Complete farm management solution for monitoring and alarm management in poultry production (broilers, breeder, layers).

1 per house.



### 130745 FarmOnline+ poultry, simple farm management 12 months

Farm management solution for monitoring and alarm management in poultry production (broilers, breeder, layers). Contains only the applications: Survey, Alarms and Connection.

1 per house.

## 2.2 Add-on subscriptions for poultry



### 130724 FarmOnline+ poultry, advanced export 12 months

Add-on for exporting data to external systems in poultry production (broilers, breeders, layers).

Requires license for Farm Management (130740) or simple Farm Management (130745).

1 per house.



### 130723 FarmOnline+ broilers Trend Warning, water+feed add-on 12 months

Add-on for monitoring broilers' water and feed consumption and receiving warnings of deviations.

Requires farm management (130740) or Simple Farm management (130745) subscription.

1 per house.

## 2.3 Stand-alone subscriptions



### 130735 FarmOnline+ broiler, MTech export 12 months

Stand-alone solution for setting up automatic data transfers for MTech Sonar.

1 per house.

## 2.4 Farm management subscription pig



### 130741 FarmOnline+ pig, fFarm management 12 months

Farm management solution for monitoring and alarm management in pig production.

1 per section.

## 2.5 Add-on subscriptions for pigs



### 130734 FarmOnline+ pig, advanced export 12 months

Add-on for exporting data to external systems in pig production.

Requires farm management subscription (130741)

1 per section/house.



### 130742 FarmOnline+ pig, ProGrow (iDOL 65 section) 12 months

Add-on for monitoring weight gain in pig production.

Requires a FarmOnline+ Farm management subscription (130741).

Requires a controller with BlueControl pig software with production functionality (136781, 136782, 136783, or 136784).

Used with iDOL 65 camera (140317).

1 per section. Regardless of the number of cameras per section.

## 2.6 FarmOnline+ Datalink



**131545 FarmOnline+ DataLink EU**

**131547 FarmOnline+ DataLink AP**

**131548 FarmOnline+ DataLink NF**

**131549 FarmOnline+ DataLink LA**

The Datalink acts as a gateway to the SKOV controllers and alarm units or a sensor gateway for external equipment.

The device is supplied in 4 variants with modems for different geographical areas.

EU: Europe, the Middle East, and Africa

AP: Asia and the Pacific region

NF: North America

LA: Latin America

Order the correct version for your country. If necessary, see the 4G Modem Country list.

It includes a suspension kit, modem with SIM card, external antenna, and 10-meter antenna cable.

Installation wiring cables are not included.

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### 2.6.1 Accessories



**134708 Cable ext. for cellular aerial - 10 m**

Used where the external antenna is located more than 10 meters from the unit.

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**134703 M25 cable glands (30 pcs.)**

Plastic gland and plastic nut for mounting in a controller or box.

Used when mounting cables in size  $\varnothing 7-14$ mm.

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### 3 Technical Data

Requirements for software version in controllers						
FarmOnline+ can access data from controllers in the specified or newer version:						
	<b>BlueControl poultry/pig</b>	<b>DOL 634 pig</b>	<b>DOL 635 pig</b>	<b>DOL 534 poultry</b>	<b>DOL 535 poultry</b>	<b>DOL 2400/2300 alarm</b>
FarmOnline+	<b>8.0</b>	<b>7.6</b>	<b>7.6</b>	<b>7.6</b>	<b>7.6</b>	<b>4.6</b>

LAN network requirements	
If the requirements are not met, the system will not work or may operate very slowly.	
There must be a LAN network (Local Area Network) on the farm.	
All SKOV controllers and alarm units must be connected on the same sub-network on the LAN.	
Specifications for LAN network:	
Speed:	Minimum 100 Mbps (full-duplex)
Delay:	Maximum <100 ms
Packet drop:	<1%
Download:	Minimum 1.0 Mbps
Upload	Minimum 0.5 Mbps
Static IP for all SKOV controllers in a SKOV network is strongly recommended.	
All controllers should also be assigned a private class IP within the network. The private class IP ranges are:	
10.0.0.0 – 10.255.255.255	
172.16.0.0 – 172.31.255.255	
192.168.0.0 – 192.168.255.255	
ZeroConf IP address allocation is not supported.	

Minimum Internet connection requirements for FarmOnline+ Data link		
FarmOnline+ is cloud-based and receives data from controllers via a FarmOnline+ Datalink on a LAN.		
A number of network requirements apply to the different functions, e.g., Remote Access. If the requirements are not met, the different functions will not work or will seem very slow.		
<ul style="list-style-type: none"> <li>The Internet connection must be stable.</li> <li>The Services must not be blocked by firewalls.</li> </ul>		
Internet connection		
Download	Minimum 1.0 Mbps	
Upload	Minimum 1.0 Mbps	
Device and software version	Upload speed	Load time of Remote Access
Controller:	8.0 Mbps	Approx. 15 seconds
• DOL 53X/63X SW 7.6	4.0 Mbps	Approx. 30 seconds
• BlueControl SW 8.0 or newer.	2.0 Mbps	Approx. 45 seconds
Alarm unit:	1.0 Mbps	Approx. 100 seconds
• SW 4.6 or newer.	0.5 Mbps	Approx. 200 seconds

Per iDOL 65	
Download	Minimum 1.0 Mbps

Requirements for Internet browser
Supports the following Internet browsers in the latest version on Windows PC and MAC:
<ul style="list-style-type: none"><li>• Google Chrome</li><li>• Microsoft Edge</li><li>• Safari</li><li>• Firefox</li></ul>

Requirements for smartphone	
Platform	Version
Android	10.0 or newer
iPhone	17.0 or newer







SKOV A/S • Hedelund 4 • Glyngøre • DK-7870 Roslev  
Tel. +45 72 17 55 55 • [www.skov.com](http://www.skov.com) • E-mail: [skov@skov.dk](mailto:skov@skov.dk)

