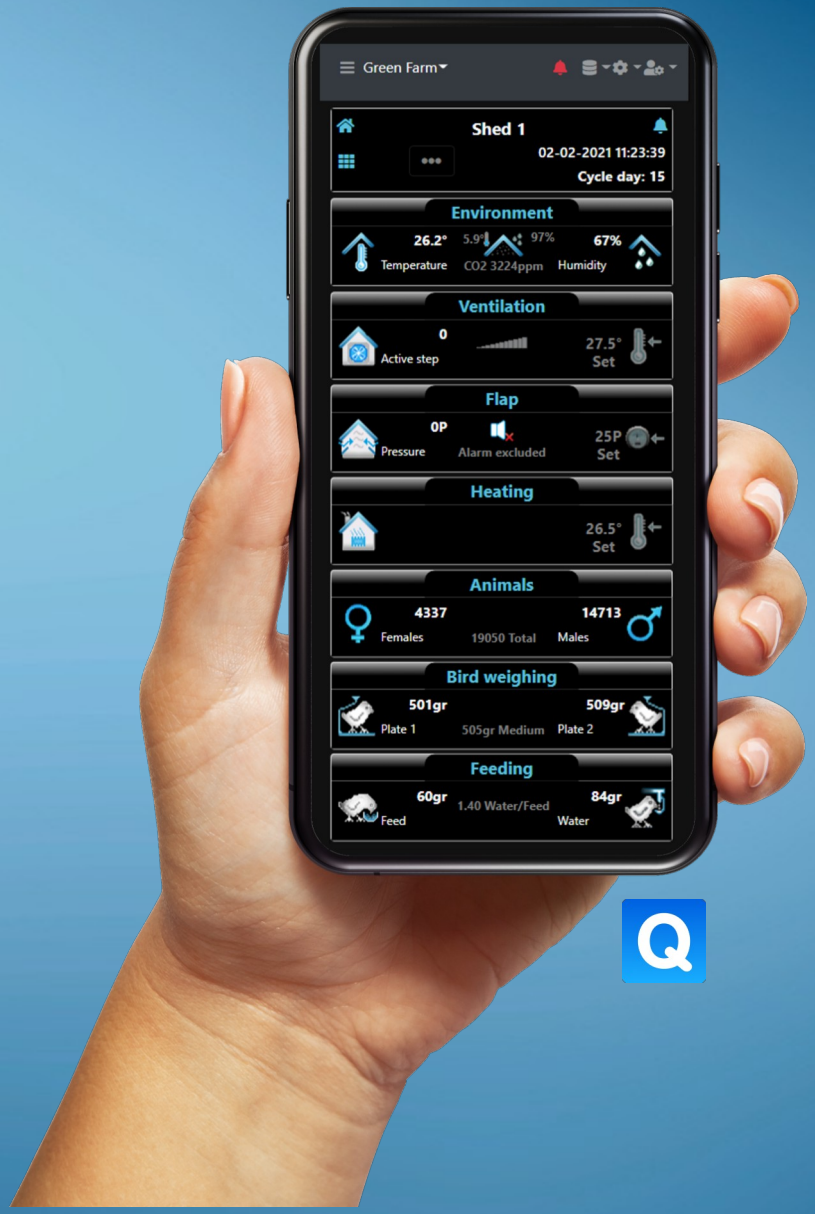
Remote control of Qfarm processors



Qfarm.Cloud

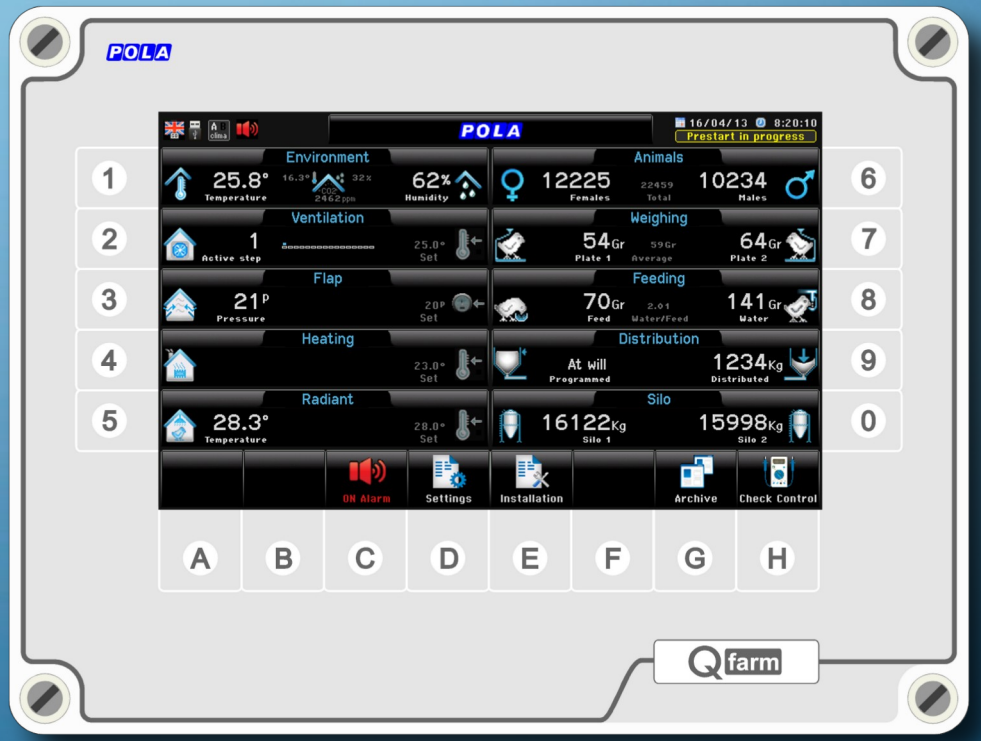
POLA

Qfarm.Cloud
remote control

Qfarm.Cloud

Simple and complete remote control

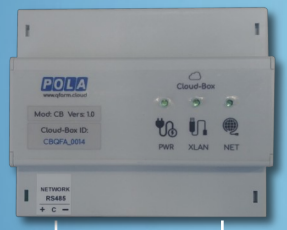
Just like your Qfarm



Qfarm.Cloud
remote control

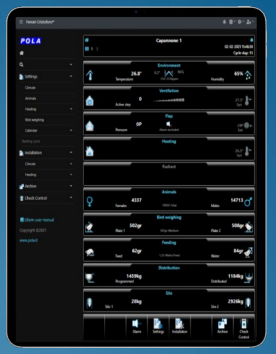
Operating principle

Cloud-Box



Modem

Internet



Qfarm #1

Qfarm #2

Qfarm.Cloud
remote control

Description of the Qfarm.Cloud system

The Qfarm.Cloud service allows remote control of the Qfarm processors installed in your Farm from any device such as computers, smartphones or tablets, connected to the internet.

The system requires our Cloud-Box gateway to be installed in the farm: Qfarms must be connected to it, in order to be controlled. The connection between Cloud-Box and Qfarm consists of a standard 3-wire cable, where an RS485 communication is established, and it can be extended up to 1000 meters. It does not require terminations, thus making the wiring of the system extremely simple. In applications where a cable cannot be used, the solution is to install our TR04 radio-modem operating on a maximum distance of 400 meters.

In addition to the Qfarm connection, the Cloud-Box requires a connection to a modem/router via an ethernet cable, in order to exchange data with the cloud-server.

Once the Cloud-Box has been connected and configured, a connection will be established with our cloud-server. From now on it will be possible to view the Qfarms with the Qfarm.Cloud service, reachable by any device connected to the internet via:

- Browser web: from this link: (Qfarm.Cloud)
- Smartphone progressive web app: auto-installante per Android e per iOS

In summary Qfarm.Cloud offers these features:

- Access to data based on cloud service towards Qfarms
- Use of a Cloud-Server with highest performances and security levels
- Possibility of merge several sheds to a single account, for a quick change of view
- Simple and user-friendly graphic interface
- Emulation of the same graphic interface of the Qfarm display
- Accreditation management of other users for sharing livestock view
- Sending configurable alarm mail to multiple users
- Features added in data logging compared to Qfarm (i.e. data logging every 15 minutes).

Qfarm.Cloud
remote control

Qfarm.Cloud graphic interface

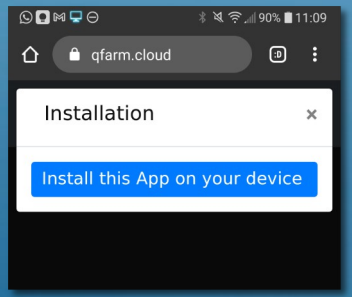
The “responsive” design adopted allows to automatically adapt the display to the device which is used (computers with different resolutions, tablets, smartphones, web tv), minimizing the user’s need to resize and scroll contents.

Some examples of display on various devices

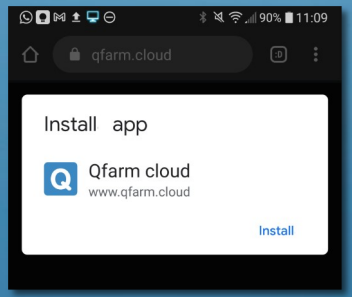
App on mobile devices and personal computers

At the first access, the service automatically proceeds with the installation of a Progressive Web App on all devices with Android, iOS and Windows operating system, without having to download it from your device app store.

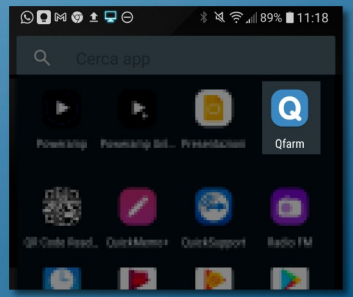
Step 1



Step 2



Step 3



Qfarm.Cloud
remote control

Farm overview

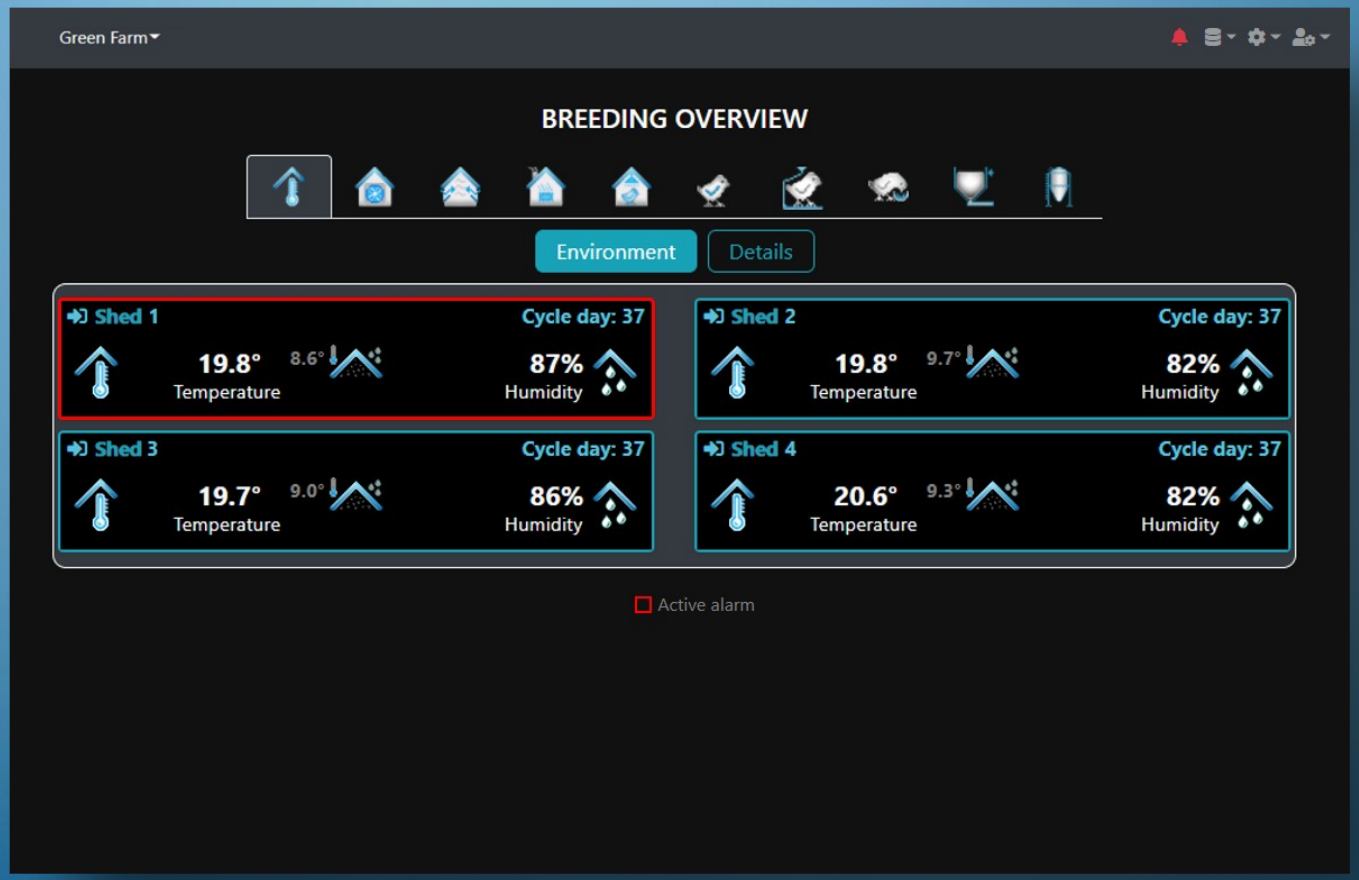
It is the main screen of the graphic interface, and the first one to be displayed after logging in.

This screen shows the data of all connected Qfarms (sheds) for a quick comparison between the values of the various sheds.

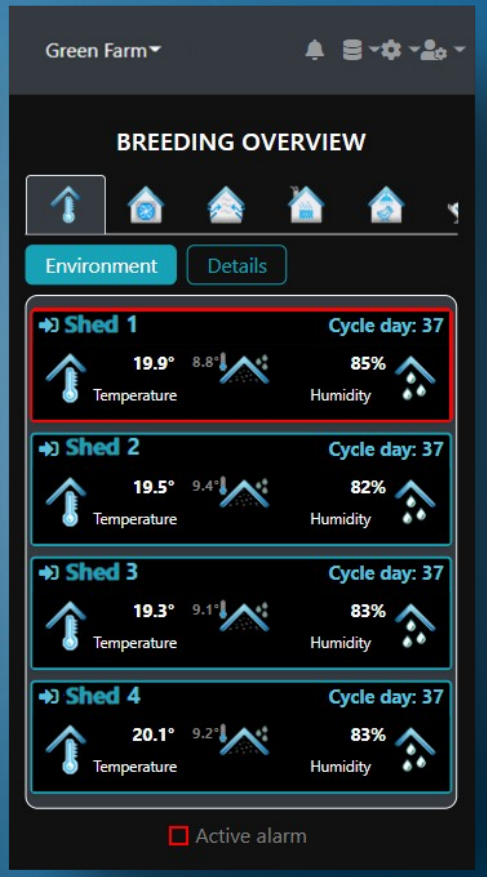
Sheds data are represented in two columns, and are ordered from left to right and from above to the bottom, when the size of the window allows; alternatively, they will be arranged on a single column with top-to-bottom ordering.

To access a single Qfarm view, select the shed you want to see.

PC / tablet view



smartphone view

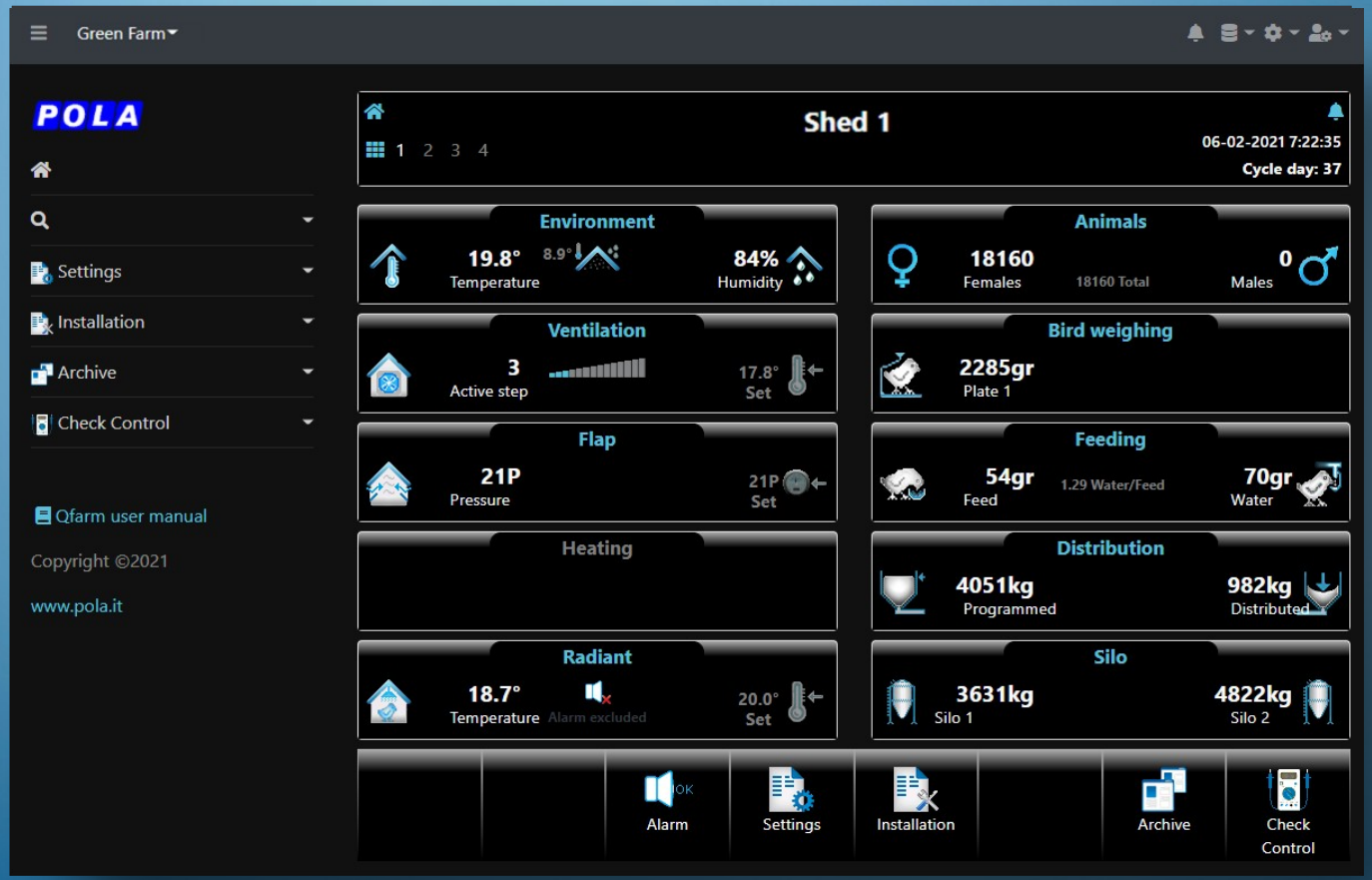


Qfarm.Cloud
remote control

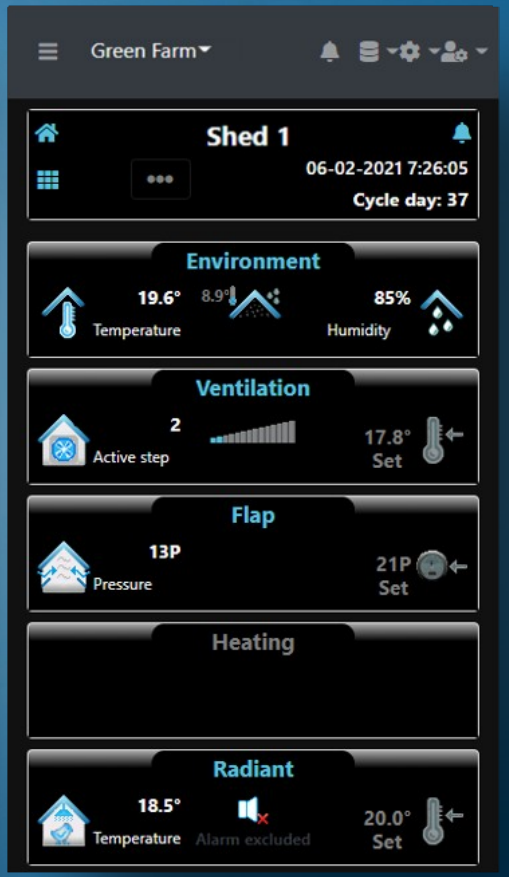
Qfarm details

With the displayed Qfarm graphic you can operate as if you were in front of the Qfarm processor in the farm. The side keys are not shown in the interface: select the selected key directly on the display.
In addition to browsing the screens, a side menu is available using the keys on the Qfarm.

PC / tablet view



smartphone view



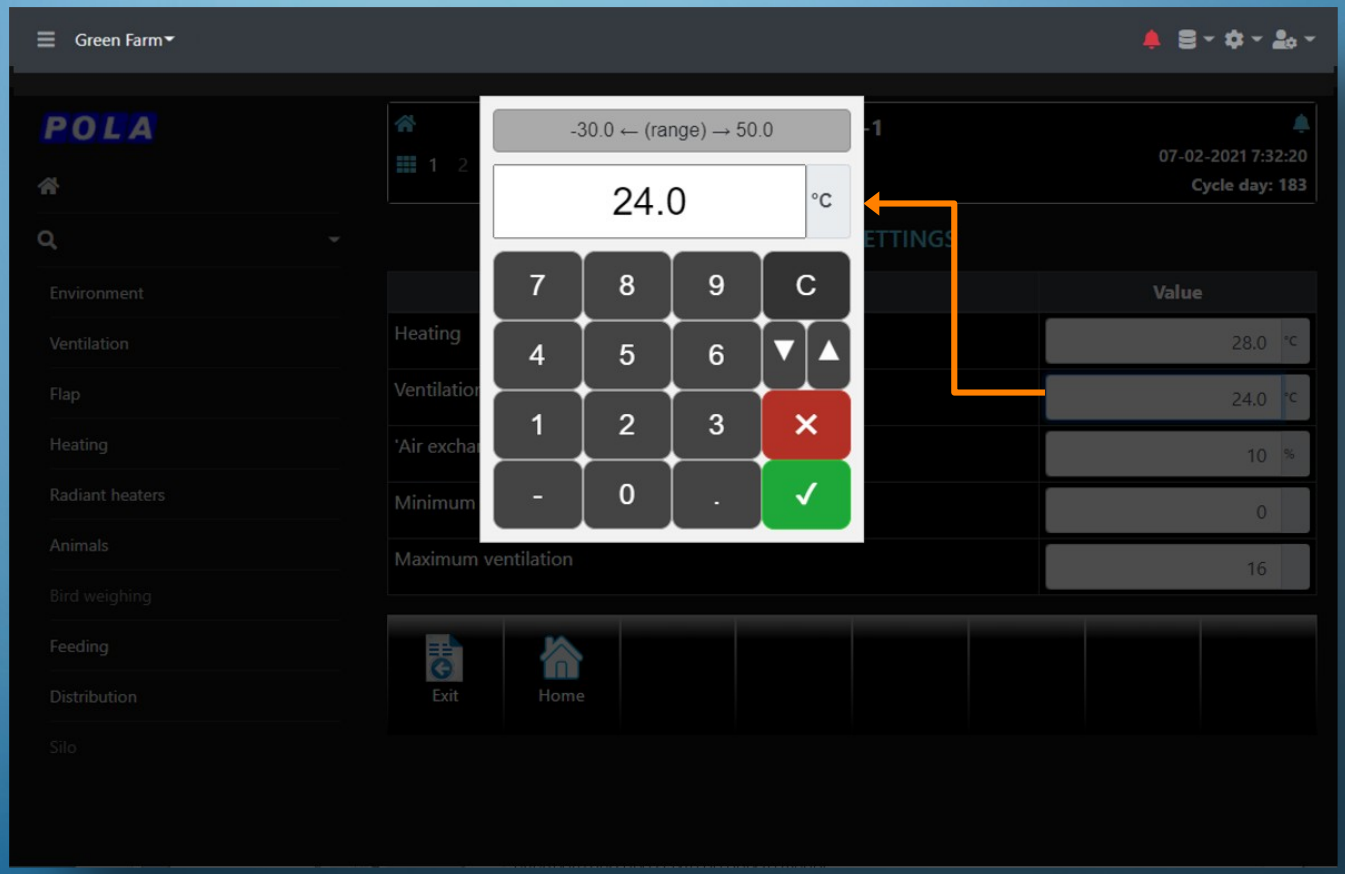
Qfarm.Cloud
remote control

Set/Install values changes

Referring to the screens of the change in settings in the Qfarm.Cloud interface, a different graphic solution was chosen, adding a practical function to transfer the setting that you are changing to all the connected Qfarms. From the Qfarm.Cloud interface it is possible to change almost all the 'Set' and 'Install' values, except those where the physical presence of the operator on the farm is required (i.e. "Cycle start", "Memorizing potentiometers", "Silo calibration", etc.).

All setting changes made with the Qfarm.Cloud service are recorded, and can be viewed in the "Log changes" screen.

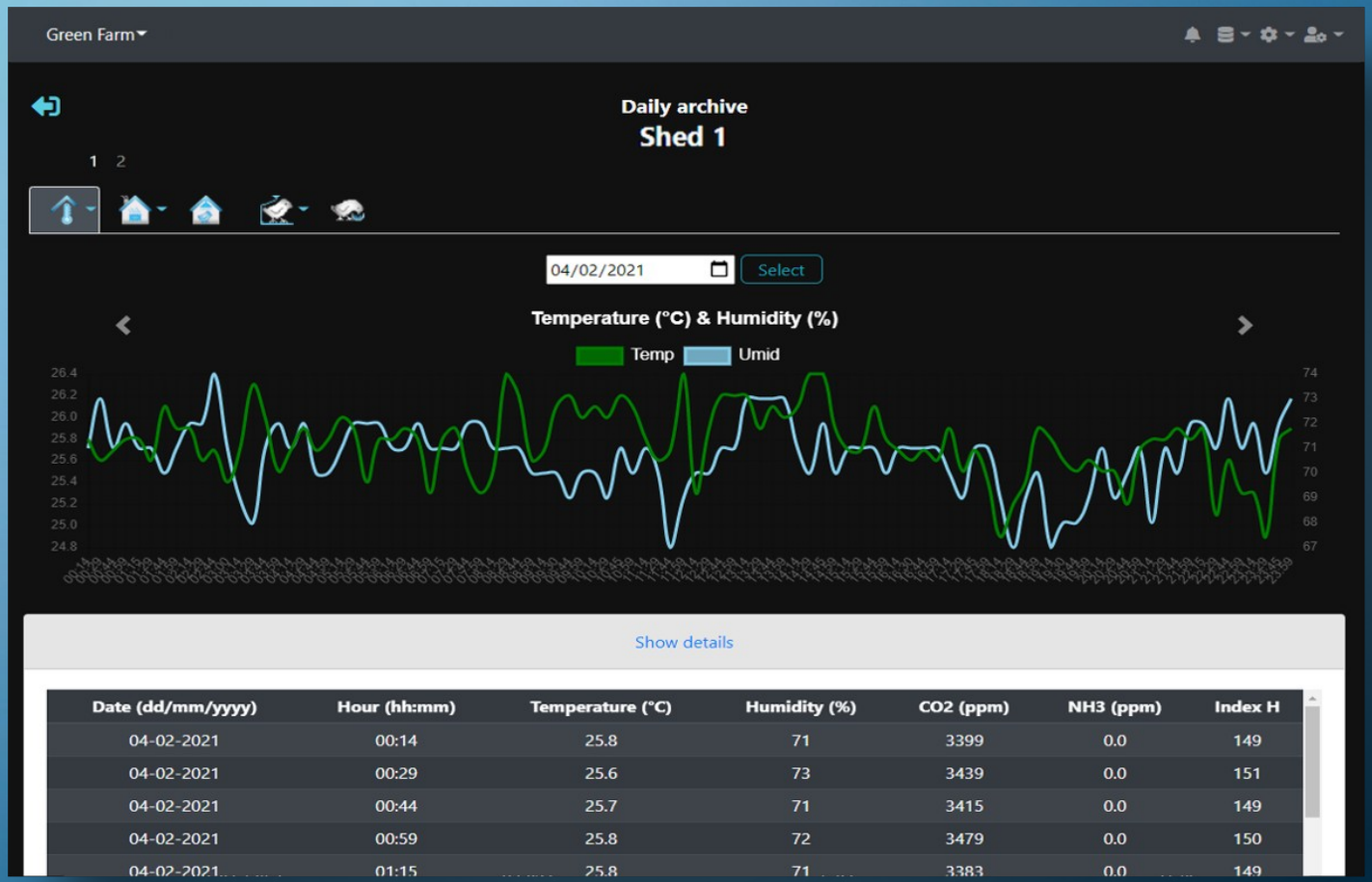
PC / tablet view



smartphone view

Daily archive

Introduction: the Qfarm provides a historic record of the climatic values of the previous 48 hours, with a recording frequency of 30 minutes; since these records are related only to climatic data and only to the last 48 hours, they are not displayed in this program. Instead, a data logger has been created directly on the Qfarm.Cloud server. The Qfarm.Cloud service records the main environmental and feeding parameters every 15 minutes, in connection to the Cloud-Box. In this screen it is possible to choose the day to be viewed, and 96 daily records will be displayed with the related graphs.

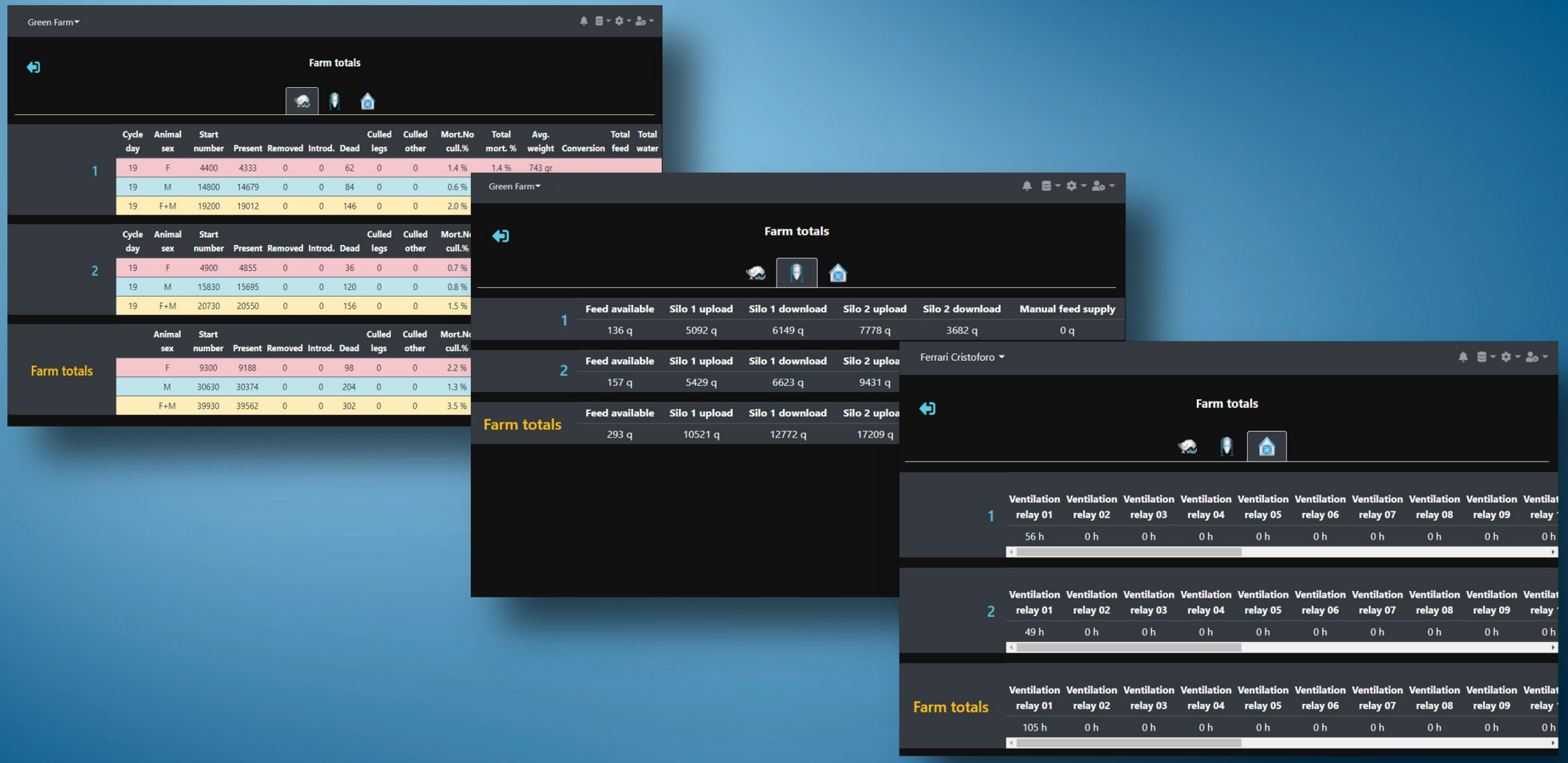


Cycle archive

The data shown in this window are those stored in the local Qfarm; the Cloud-Box collect data in background from the connected Qfarms and shows them in this window, in table and graph format. From this screen it is also possible to export records of the current cycle to a .csv format file (viewable by Excel or another program).

Shed total

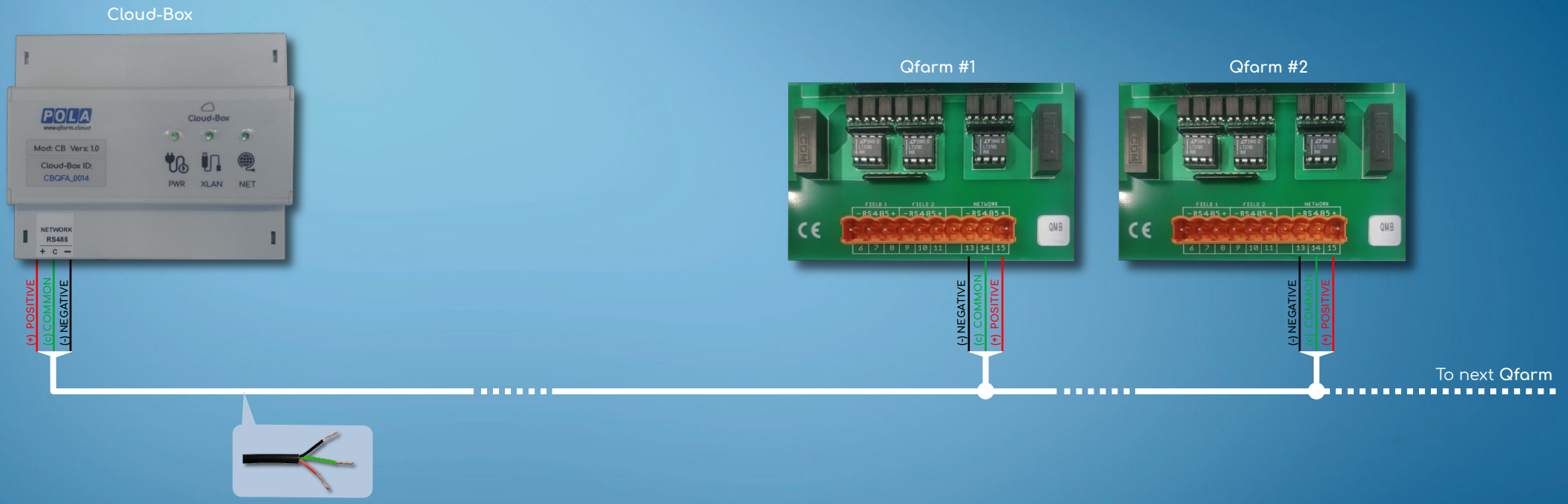
In this window, all the Total data of the cycle of all the sheds are displayed; in addition, a total report of the farm is shown, in order to figure out the sum of all the sheds, as if there was a single shed.



Connection between Cloud-Box and Qfarms

The Qfarms in the system must be connected to the Cloud-Box module.
The cabling of the 485 transmission network does not require dedicated cables and does not require terminations, thus making the wiring of the system extremely simple.
The total length of the different connections must be less than 1000 meters.

Example of connection between Cloud-Box and Qfarms



In any case where a cable cannot be used (for example where there is a road or a railway line to cross), the solution is to install a 485 radio-modem for a maximum distance of 400 meters.

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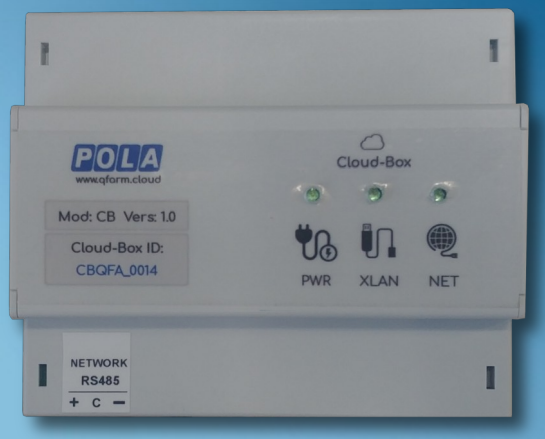
System components

Cloud-Box



Components supplied

Qfarm.Cloud offer includes:

- The activation by POLA of the livestock on the Qfarm.Cloud service
- A Cloud-Box device (Mod. CB)
- A Cloud-Box power supply
- An ethernet cable connecting the Cloud-Box to the Modem/Router.

Components required (supplied by Us)

- Qfarm processors updated to the latest release available, to be connected to the Cloud-Box (update available on Our site)

Components required (not supplied by Us)

- Modem/Router for internet access of the Cloud-Box
- The subscription of the ISP service (Internet Service Provider) with an operator (ADSL, Fiber, etc.)
- Qfarms connection to the Cloud-Box (see par.12).

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