



GrainWatch

Part of GrainCloud

Grain Watch Standard

Monitoring system for temperature in grain storage

Monitoring of harvest quality.

Maintain your grain quality with Grain Watch – a state-of-the-art monitoring system for monitoring grain temperature. Grain Watch uses specially adapted temperature lines that measure and generate data. The data is stored in Grain Cloud and visualised in two different interfaces depending on the choice of product. The result provides total quality control over your stored grain.

Grain Watch Standard

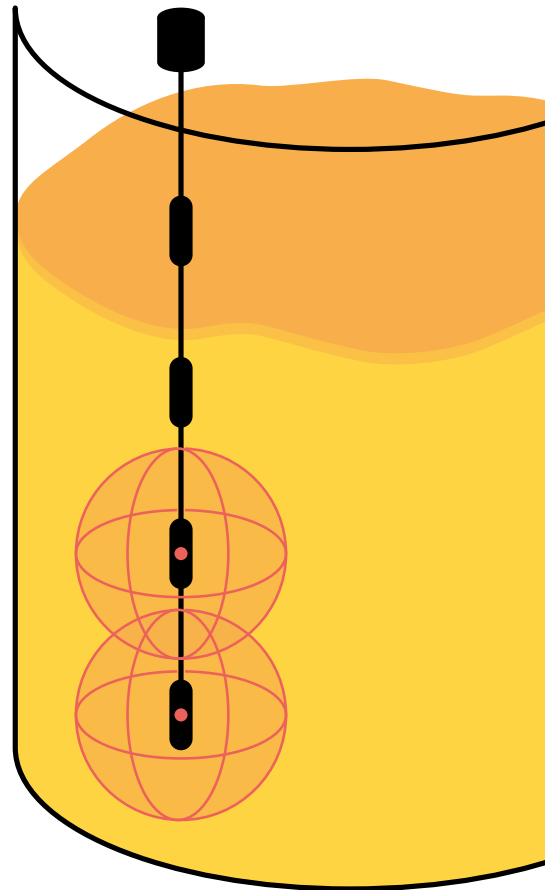
Grain Watch Standard is our smart monitoring system for grain storage in small scale agriculture. Through robust temperature lines, you get full quality control over your stored grain, where you easily keep track of temperature and history via Grain App. Quick and simple installation makes it easy to ensure monitoring of your grain.

- Full quality control of your small-scale storage.
- Quick and simple installation.
- Integrated internet connection.
- Easy monitoring in mobile interface.
- Main and trend alarms are notified via Grain App.

This is how it works

The temperature lines consist of a number of sensors with a spherical coverage area of 6 m. The volume of the silo therefore determines the number of sensors required. The sensors are placed with 1-, 2- or 3-meter intervals on each temperature line.

The temperature lines are hung in concrete or steel silos mounted in different ways depending on the silo's construction and the customer's wishes. These factors determine which type of suspension is to be used for the temperature lines.



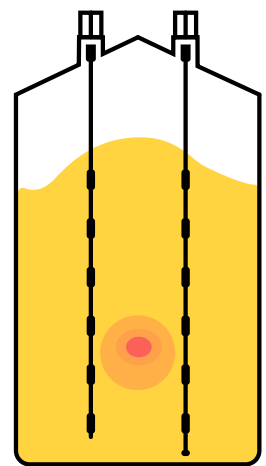
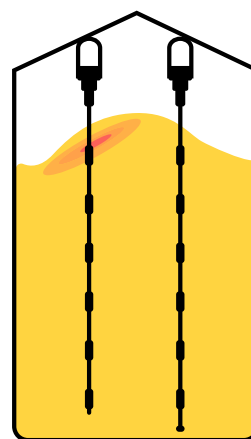
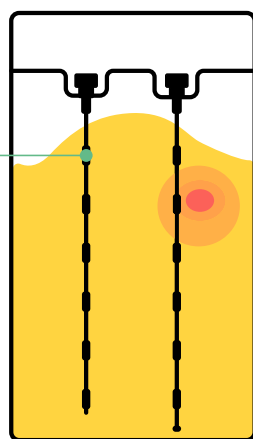
Suspension type

Floor well

Loop

Pipe socket

Temperature sensors



Silo type

Concrete

Steel

Steel

Experience a flexible way of monitoring your grain
– Order Grain Watch Standard today

Read more on graincloud.com

Sensors

The temperature lines with sensors generate monitoring data to the system. The sensors are installed as standard with 1-, 2- or 3-meter intervals, regardless of the length of the temperature line, which is adapted based on needs. All temperature lines are designed for long lasting and continuous operation. No sensor calibration or maintenance is required.

Temperature line GWSL1100

- Roof load during emptying/filling 25 kg/m.
- Tensile strength more than 2500 kg.
- Diameter 10 mm.
- Normally used up to 40 m.
- Three types of suspension.



Temperature line GWSL2100

- Roof load during emptying/filling 50 kg/m.
- Tensile strength more than 8 000 kg.
- Diameter 17 mm.
- Normally used up to 80 m.
- Three types of suspension.

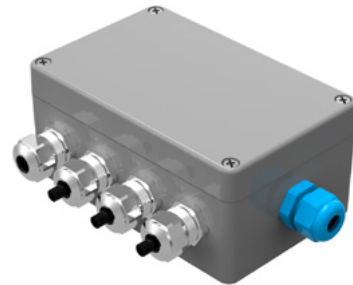


Network switch, Network controller and Connection unit

The Network switch connects the temperature lines. The Network controller, in turn, connects the Network switch with the Connection unit.

Network switch – GWNET

Network switch – GWNET connects up to four temperature lines. A maximum of four GWNET can be connected in series per input on a Network controller – GWAB. The connection is made with signal cable according to special specification. ATEX and IECEx approved.



Network controller – GWAB

Network controller – GWAB has four inputs for up to four Network switch – GWNET in series. A total of 16 temperature lines per input and a maximum of 64 temperature lines per GWAB. Up to seven GWAB can be connected in series. The connection is made with signal cable according to special specification. ATEX and IECEx approved.



Connection unit GWA

Connection unit GWA connects to Network controller – GWAB which enables data transfer to the cloud and presentation in Grain App, the interface for the product Grain Watch Standard.



Interface

Grain Watch Standard utilises Grain App as interface which is used by several Grain Cloud products. In Grain App you can easily remotely monitor the temperature in your grain storage.



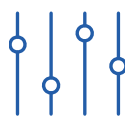
Would you like to see more details?
Read more on graincloud.com

THE PIONEERS OF DIGITAL GRAIN STORAGE

Grain Cloud is based on the idea of total control of your grain work. Leading to superior harvest quality and invaluable insights. Founded in 1914 we have for a long time been the front runner within the professional agriculture. And are today, pioneers of digital grain storage. Experience a new world of visionary digital solutions for your daily grain handling. Always aimed at increased profitability.



Grain Balance
**Summary of
harvest quantity.**



Grain Control
**Facilitate operation
of equipment.**



GrainWatch
**Monitoring of
harvest quality.**

Discover the Grain Cloud family

Get full control, superior grain quality, beneficial insights and the ability to remotely manage processes. The products in the Grain Cloud family have been developed to seamlessly integrate with all types and levels of agricultural facilities.

Read more on graincloud.com

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