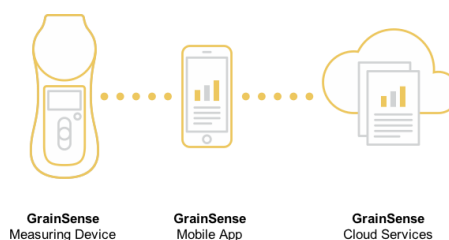


MEASUREMENT CONCEPT

The key components of the GrainSense solution are the GrainSense device, mobile application, and cloud-based value-added services.

1. Mobile application sets up the device with the correct language and the latest grain calibrations.
2. The device analyses the protein, oil, carbohydrate and moisture content of the seeds in a matter of seconds.
3. The results are sent to a mobile app, which sends the results to a cloud database.
4. Based on the analysis of the grain quality measurement data, actionable decision-support for harvesting, silo management, and selling is provided through the mobile app (value-added services).
5. All data is stored in the cloud database and can be accessed through a user dashboard for further analysis.



TECHNICAL SPECIFICATION

| | |
|-----------------------|--|
| Size | Hand-held (footprint 270 mm x 115 mm) |
| Weight | 820 grams (+ batteries) |
| Batteries | 6 x AA |
| Battery operation | Approx. 150 measurements |
| Measurement principle | Near infrared spectroscopy |
| Measurement time | Typically 30 seconds (including device warm-up and sample loading) |
| Species | Initially wheat, barley, oats and rye. Later rapeseed and other oilseeds |
| Operation temperature | 5 to 45 C |
| Storage temperature | -10 to 60 C |
| Protection | Water resistant for outdoor use |
| Bluetooth | LE 4.1 |
| Language | Multiple languages |
| Calibration | Multiple calibrations via mobile phone (max 4 loaded simultaneously) |
| Mobile application | Android/iOS |