

Product Sheet

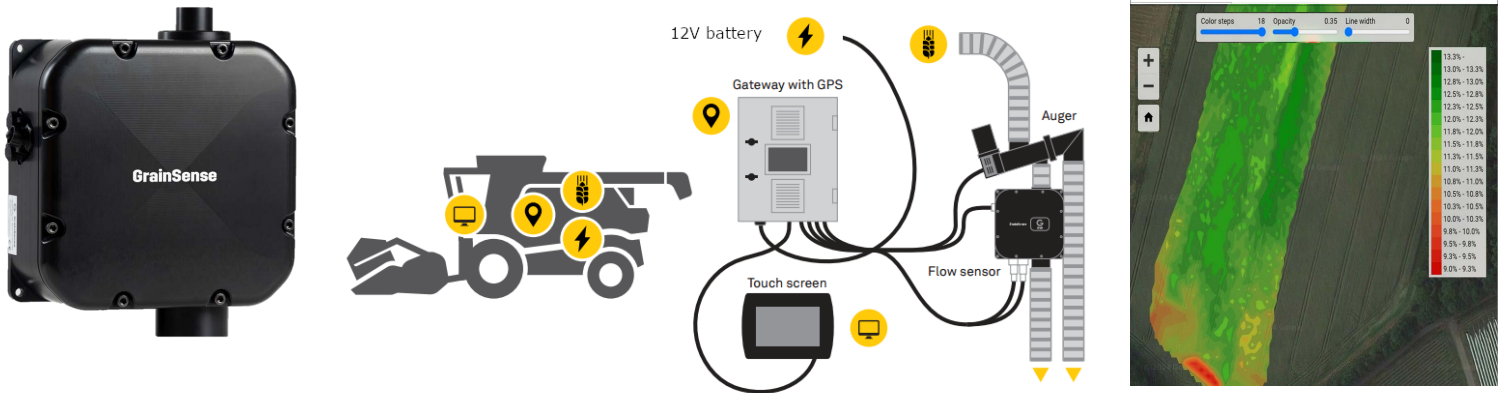
GrainSense Combine

Grain analyzer

Measuring grain quality instantly on combine harvesters

The GrainSense Combine analyzer has been developed for analyzing real-time grain quality in an environment where grains are actively flowing. Installed in an elevator of a combine harvester the GS Combine analyzer measures protein and moisture on-line during harvest.

GS FLOW ON COMBINE HARVESTERS



Via a grain entry and exit pipe system, grain is flowing through the GrainSense Flow® sensor, where real-time analysis is performed. The measurement data is sent to the GrainSense Cloud, enabling the farmer to monitor the measured results in real-time and to make better decisions. The user also gains access to heatmap visualizations generated from measurement data combined with location information.

Technical specifications	
Sensor Size	225x225x110mm
Gateway Size	300x200x120mm
Weight of the Sensor	5kg
Weight of the Gateway	4kg
Power	12 VDC
Measurement principle	Near infrared transmittance spectroscopy
Sample size	Variable; ≈100grams per second flows through the sensor when measurement is ongoing
Species	Wheat, barley, maize, soybean, rapeseed, oats and rye
Storage temperature	-20 to +85 °C
Operation temperature	+5 to +45 °C
Yearly calibrations	Remote SW update

