iGRAIN®

AIO: All-In-One Sensor Cable

The iGRAIN AIO Sensor Cable combines monitoring of CO_2, grain moisture and temperature

The iGRAIN AIO Sensor Cable combines several different digital sensor technologies into one sensor cable. Ensuring a cost efficient total monitoring system, the AIO Sensor Cable may be used as the only monitoring solution in a single silo. However, it can be supplemented with additional iGRAIN Temperature Sensor Cables.

All-In-One

- CO_2 monitoring (infestation)
- Moisture monitoring
- Temperature monitoring
- Headspace humidity monitoring
- Grain level monitoring
- Additional sensors according to customer needs

Advantages

- Advanced total monitoring system in one cable
- Intelligent use of sensor technology reduces the needed monitoring equipment
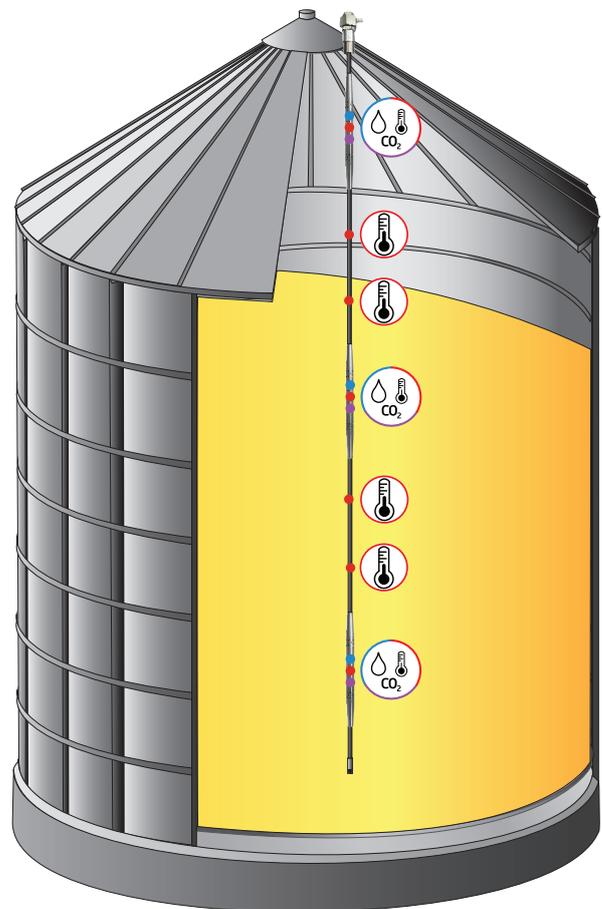- MODBUS communication

Interface / Software

- MODBUS communication
- Sensors connect directly to iGRAIN Control Board or any PLC/SCADA system or other platforms
- Automatic aeration control incl roof vent control
- Inventory management

Mounting solutions

- Several different mounting solutions

All-In-One Sensor Cable

Technical specifications

Temperature sensors	One temperature sensor per 2,0 m, up to 30 sensors / cable
Measure range	-20°C to +70° C, resolution 0,3° C
iGRAIN moisture sensor	8 - 24% H_2O
Head space humidity	5 - 99% rH
CO_2 sensor	0 - 50.000 ppm
iGRAIN inventory management	Typically 2-4% (depending on number of sensor cables)

Automatic monitoring with the iGRAIN Smart App

I-GRAIN.NET