

Phosphine safe

iGRAIN®

## AIO and AIO+: All-In-One Sensor Cable

The AIO Sensor Cable monitors CO<sub>2</sub>, grain moisture, temperature, and more  
Now also available as phosphine safe sensor cables

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 can be used as the only monitoring solution in a single silo. However, it may be supplemented with additional iGRAIN Temperature Sensor Cables.

### All-In-One

- CO<sub>2</sub> monitoring (infestation control)
- 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 amount of monitoring cables needed
- MODBUS communication

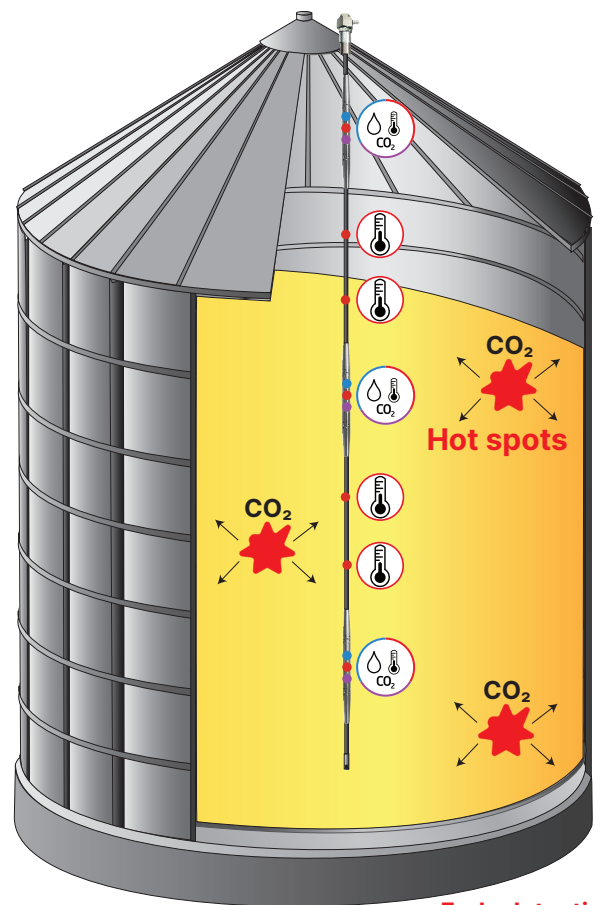
### Interface / Software

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

### Phosphine safe cables

The AIO Sensor Cables are now also available in a phosphine safe version. This ensures that the sensors are not damaged during phosphine fumigation.

All-In-One Sensor Cable



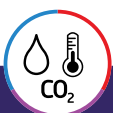
Early detection of infestation

Technical specs.	AIO Sensor Cables	AIO+ Sensor Cables
Temperature sensors	One temperature sensor per 2.0 m, up to 30 sensors / cable	
Measure range	-20°C to +70°C, resolution +/- 0.2°C	
iGRAIN moisture sensor	8-24% H <sub>2</sub> O, resolution 0.1% moisture	
Head space humidity	5-99% rH, resolution 0.1% rH	
CO <sub>2</sub> sensor	0-40,000 ppm	
iGRAIN inventory management	Accuracy typically 2-4% (depending on number of sensor cables)	
Organic volatile gases *	-	0-10,000 ppm / 0-10%
iGX sensor *	-	0-100% (calibrated)

\* The special AIO+ Sensor Cables can be calibrated to different applications. Standard calibrations exist for: Wheat ripeness, oil seed vapours, wood chips / pellets, or feedpellets.



Automatic monitoring with the iGRAIN Smart App



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