

iGRAIN MOISTURE SENSOR CABLE

ADVANCED DIGITAL GRAIN AND AIR MOISTURE MONITORING



General description

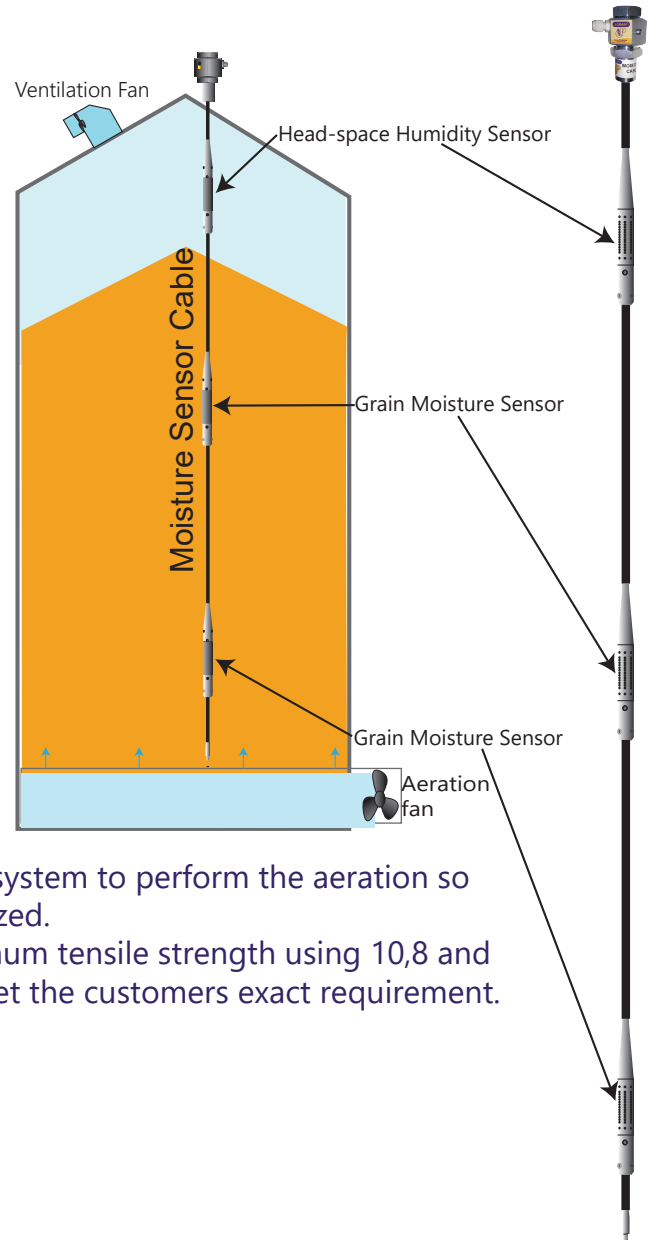
The iGRAIN MOISTURE SENSOR CABLE is an advanced grain monitoring tool. It measures the ambient relative humidity at different points in the grain bin. The relative humidity can be calculated into grain moisture using the EMC curve (Equilibrium Moisture Concentration).

Usually the top sensor is placed just under the silo roof so the head space relative humidity is monitored and applied in the iGRAIN MANAGER SOFTWARE to control the roof vent fans.

Since small fluctuations in the EMC value corresponds to a very specific calibration curve, it is important that the user selects the correct grain type from the set-up menu, in the iGRAIN MANAGER SOFTWARE.

In the iGRAIN MANAGER SOFTWARE the trend curves for the grain moisture can be seen.

Recording of the grain moisture enables the iGRAIN system to perform the aeration so that shrinkage due to loss of moisture can be minimized. The Moisture Cables are available for different maximum tensile strength using 10,8 and 13 mm conduit cable and it can be configured to meet the customers exact requirement.



ADVANTAGES

- **Avoid shrinkage through moisture monitoring**
- **Reliable GRAIN moisture tracking**
- **Connects to the standard iGRAIN network boxes MASTER-HUB and SUB-HUB**

Technical specifications

The moisture Sensor Cables are connected to a PC with the iGRAIN DASH BOARD MANAGER Software. The communication with the sensors is by means of the iGRAIN data network via the Master-Hub(s) and Sub-Hubs. The Master-Hub collects data from the Sub-Hubs that are connected to the moisture cables.

Sensor Cables: Diameter 10.8mm, tensile strength 2.000 Kg, max. 24 Meter length, max 3 sensors
Diameter 13mm, tensile strength 3.000 Kg, max. 35 Meter length, max 7 sensors
Each Sensor cable may have from 1 to 4 Moisture sensors
There is a fixation eye at the bottom of the Sensor Cable

Sensors: Grain Moisture: 8 to 24% Moisture,
Head Space Humidity sensor: 2 – 99%rH