

Cereal

Moisture measurement & control

Having the correct moisture levels in cereal has become a critical component during the various stages of manufacturing. Cereal can easily become either too wet or dry wasting manufacturer's time and money as well as impacting the quality of the end product. With the help of industry partners and 30 years of knowledge, MoistTech has developed the *IR 3000* Moisture Sensor that is ideally suited to measure the moisture levels in the cereal manufacturing process. The sensor is coated in a food grade material with a polymer optical window allowing manufacturers to improve product quality and monitor moisture continuously



Installation....

By installing the sensor at the exit of the ovens, a manufacturer can continuously monitor the process and can control the moisture content either manually or automatically in the finished product. However, by also installing them after cookers, milling locations and/or cooling tunnels, the quality of the product and efficiency of the process can significantly be increased.

To accurately measure the moisture levels, the sensor should be installed over the conveyor transporting the cereal. The sensor should be mounted several inches above the belt, screw conveyor or any area where the material can be viewed.

Benefits....

- improved product quality
- lower energy costs
- reduced start-up times
- less waste
- 100% product inspection
- less downtime



MoistTech is very experienced with the requirements in the production of cereal. Our sensor calibrations, measurement wavelengths, algorithms and sensor optical requirements are pre-set at the factory. Typical accuracy is about $\pm 0.1\%$ moisture. Typical analog range is 0-10% moisture and up to as much as 40%, subject to application. The outputs can be adjusted to optimize PLC or recording requirements. For addition information or to discuss your application, please contact our headquarters.

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