

Snacks & Crackers

Moisture measurement & control



Having the correct moisture levels in crackers and baked snacks has become a critical component during the various stages of baking. Crackers and snacks 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 during the baking & frying 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, close to packaging will allow the snacks/crackers time to stabilize while cooling. Ideally, after the ovens or fryers. The sensor should be installed several inches above the belt or screw conveyor so that it can continuously monitor the process and can control the moisture content either manually or automatically in the finished product.

Environment....

If the sensor has to be installed close to the oven outlet where it will be susceptible to extreme heat conditions, it is necessary to cool the sensor with either air or water. Furthermore, if the sensor is located near an oil spray, it is necessary to clean the sensor's optical window during regular routine cleaning.

Benefits....

- improved product quality
- lower energy costs
- less waste
- 100% product inspection
- less downtime



MoistTech is very experienced with the requirements in the production of snacks and crackers. 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. 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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