

# Moisture Content in Glass Production

MoistTech Instant NIR Online Moisture Sensors

Having the correct moisture levels in sand/glass mixtures has become a critical component during the various stages of production. Sand/glass mixtures can easily become either too wet or dry wasting manufacturer's time and money as well as impacting the quality of the product.

Ideally a moisture control system should be able to accurately detect moisture in raw materials, preferably at different stages of the manufacturing process, be easy to maintain and tough enough to withstand the harsh, abrasive nature of the raw materials and the mixer environment.



With the help of industry partners and 30 years of knowledge and experience, MoistTech has developed the IR3000 Moisture Sensor that is ideally suited to measure the moisture levels in glass making process.

Unlike other instrumentation of this type, some of the unique features of the IR3000 is that it can monitor the product even with small gaps in product flow and is unaffected by ambient light without impacting the accuracy. The sensor is insensitive to material variations such as particle size, material height & color, our moisture sensors provide continuous, reliable readings with zero maintenance and a one-time calibration with a non-drift optical design allowing operational personnel to confidently make immediate process adjustments based on real-time measurements.



By installing the sensor at the exit of the dryer, a manufacturer can continuously monitor the process and can control the moisture content either manually or automatically instantly. If the sensor is susceptible to extreme heat conditions, it is necessary to cool the sensor with either air or water.

Typical accuracy is about  $\pm 0.1\%$  moisture. Typical analog range is 1-10% 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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