



Moisture Measurement in Corrugated Board

In the corrugated industry, controlling product moisture levels is critical to the manufacturing process. MoistTech has developed a state-of-the-art moisture measurement sensor unsurpassed in performance and reliability, providing the ability to control the process with an accuracy of +/-0.1% moisture.

MoistTech utilizes near-infrared (NIR) technology that allows for a non-contact solution to provide accurate moisture content readings. Insensitive to material variations such as particle size, material height & color, the sensors provide a continuous, reliable reading with zero drift and no maintenance. There is a one-time calibration with a non-drift optical design allowing operational personnel to make immediate line adjustments based on real-time measurements.

Moisture content has a drastic effect on quality and can lead to problems with warping, glue adhesion and printability. Measuring the moisture at linear, medium, and face locations will yield significant improvements to the final product.

INSTALL

The on-line sensors can be installed into any hopper, silo, material line, belt or screw conveyor and the moisture results are displayed onto an external display or PC.

In board plants, the sensor is often installed in extreme heat locations typically near a pre-heater. In these situations, the gauge is fitted with a built-in vortex air cooling system to optimize performance and extend the life of the instrument.

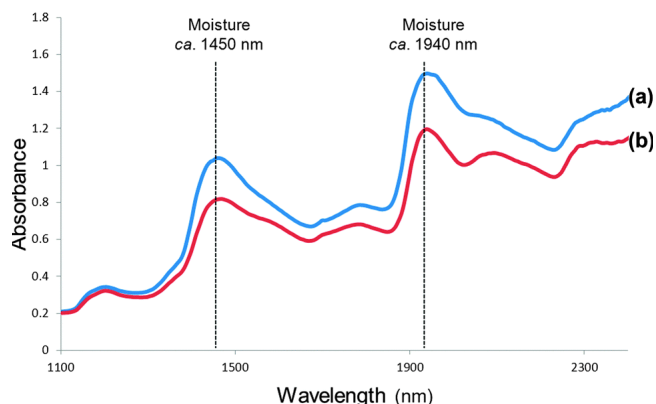
Installing a moisture measurement and control system prevents bad product due to undesirable moisture levels. Fine tuning the setup and process of the manufacturing line allows for instant improvements both in the product and in the efficiency in which it is produced.

The sensor can be directly connected to the users PLC or any laptop. Ethernet 4-20MA is included as well as our high-tech windows operating software.

IMMEDIATE BENEFITS:

- Improved Product Quality
- Lower Waste & Energy Costs
- Process Optimization
- Increased Plant Efficiency
- Dryer Control
- Reduced Downtime

An ideal moisture control system accurately detects the moisture levels at different stages of the process, is easily maintained and has the ability to withstand even the harshest of manufacturing conditions. The IR-3000 series of sensors manufactured by MoistTech are specifically designed to be unaffected by ambient light or material variations to be able to provide continuous, repeatable, accurate readings to improve the manufacturing line and product.



“The addition of the MoistTech IR3000 has provided me with the ability to control our process by instantly increasing or decreasing material flow into the dryer. Prior to the MoistTech technology proved to be a guessing game and time consuming!”