

Corrugated Board

Moisture measurement & control

Eliminate Curl



In the corrugating industry, moisture control is critical during the manufacturing process. Being such a porous material, board can easily become too wet or dry wasting manufacturers time and money.

Additionally, by controlling moisture, both top and bottom face material corrugators can eliminate curl. With the help of industry partners and 30 years of knowledge, MoistTech has developed the *IR 3000* Moisture Sensor which is ideally suited to measure the moisture levels in the board corrugating process while improving manufactures product quality and lowering their energy costs.

Installation....

By installing the sensor online, a manufacturer can continuously monitor the process and can control the moisture content in liner, medium or face locations, either manually or automatically. To accurately measure the moisture levels, the sensor should be installed over or angled, relative to the web that is transporting the board.

Environment....

In board plants, the sensor is often installed in extreme heat locations typically near a pre-heater. In this situation, it is necessary to protect the sensor and should be installed in an insulated box containing vortex cooler. Furthermore, the environment in board plants can be very moist. In this circumstance, an air-purge should be installed to prevent condensation collecting on the sensor's optical window.

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 corrugated board process. 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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