

Boiler Fuel/ Hog Fuel

Moisture measurement & control



Having the correct moisture levels of raw material infeed to the boiler is a critical component of the combustion process.

The IR3000 sensor provides instant moisture content of the material being conveyed, allowing the operator to blend raw material to precise moisture levels required for efficient combustion. With the help of industry partners and 30 years of knowledge and experience, MoistTech has developed the *IR 3000* Moisture Sensor that is ideally suited to measure the moisture levels during the combustion process.

Installation....

By mounting the sensor several inches above the conveyor will allow the user to continuously monitor the process and can control the moisture content either manually or automatically in the combustion process. The unique feature of the IR 3000 is that is able to monitor the process even with small gaps in product flow without impacting the accuracy.

Environment....

Dust from the product is not normally a problem however in extreme dusty environments we recommend the installation of an air purge system to prevent the accumulation of material on the sensor's window.

Benefits....

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

MoistTech is very experienced with the moisture sensing requirements in the combustion process using forest products residue. Our sensor calibrations, measurement wavelengths, algorithms and sensor optical requirements are pre-set at the factory. Typical accuracy is about $\pm 0.2\%$ moisture. Typical analog range is 0-75% 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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