



Moisture Measurement in Coal

Moisture content in coal processing is an essential factor to monitor as the lack or excess of moisture can impact the production and quality of the final product. Without the proper handling and production processes, the quality of coal is depleted, potentially causing increased pollution.

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.

Coal has a wide moisture content range, which affects its value as fuel and determine how environmentally friendly it is to use, the production process is directly related to its quality. Taking precise moisture measurements in the coal production process allows the ability to regulate moisture content, thereby creating a cleaner, higher quality coal. To achieve this, proper moisture measurement and control sensors are necessary.

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.

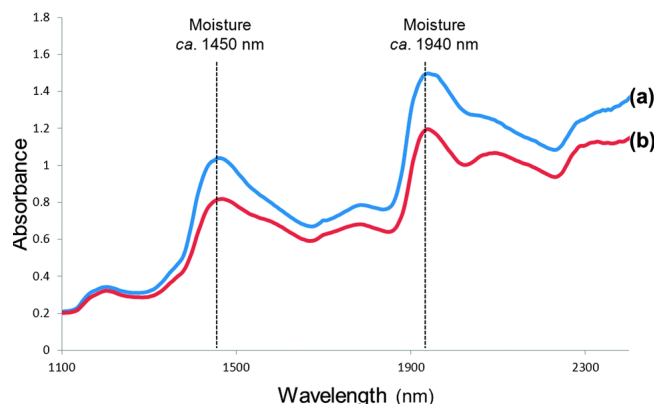
Installing a moisture measurement and control system prevents bad product due to undesirable moisture levels. Fine tuning the setup and process of the manufacturing line allows for instant improvements both in the product and in the efficiency in which it is produced.

The CCS takes continuous accurate measurements of moisture which allows you to regulate moisture levels both manually or automatically. The sensor is also capable of taking temperature measurements and other levels vital to coal production.

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 CCS-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!”