

MoistTech.com

INSTANT ONLINE & LABORATORY MEASUREMENTS



MOISTURE MEASUREMENT & CONTROL FROM LAB TO LINE



Moisture measurement and control is a crucial aspect in coal processing. MoistTech's new CCS3000 Moisture Sensor provides the user with non contact instant moisture measurement.

As coal is mined wet, ground water and other extraneous moisture is readily evaporated. Moisture also influences the handling characteristics. By integrating MoistTech's CCS3000 into the process, users are able to monitor 100% of their product quality, instantly and consistently. Measuring moisture throughout processing will produce coal at a specific moisture percentage preventing the out of specification when the product is too wet or too dry. Additionally, monitoring coal moisture will improve performance and heat rate, as well as control emissions and water consumption.

Installation...

MoistTech recommends installing sensors in several locations throughout the process. Installing the sensor prior to drying will prevent over drying causing a dusty, ambient environment but could also result in a fire or damage to the conveyor. Installation of the sensors after drying, prevents wasted fuel or energy on over drying the product. Additionally, product too wet results in higher fuel consumption as it takes more energy to burn.

ONLINE MOISTURE MONITORING SYSTEM FOR MINERALS & CHEMICALS

**REDUCE FUEL COSTS
REDUCE ASH DISPOSAL COSTS
AVOIDED COST OF EMISSIONS CONTROL
WATER SAVINGS
REDUCED MAINTENANCE COSTS
REDUCED OUTAGES**

Unlike other instrumentation of this type, some of the unique features of the CCS3000 is that it is able to monitor the product even with small gaps in product flow and is unaffected by ambient light without impacting the accuracy. The model 3000 is also ideal for installations on chain and screw conveyors.

The sensor(s) can be located throughout the coal process and can be directly connected to the users PLC or any laptop. Ethernet and 4-20 ma are included as well as our high-tech Windows operating software. DPM (Digital Panel Meter) and a Color Touch Screen Operator Interface are also available as read-out options.

Sensor calibrations, measurement wavelengths, algorithms and sensor optical requirements are pre-set at the factory. Typical accuracy is +/- 0.1% on low moisture applications and +/- 0.25% on high moisture installations. Complete measurement ranges are from 0 to 80% moisture.

**NIR NON-CONTACT
INSTANTANEOUS CONTINUOUS MEASUREMENT
ACCURATE
NEW ADVANCED FEATURES
IMMEDIATE PRODUCTION ADJUSTMENTS**

**COAL
COKE
SINTER MIX
MINERALS
ORE EXTRACTION &
MINING
CHEMICALS
DETERGENTS
EXPLOSIVES
FIBERS**