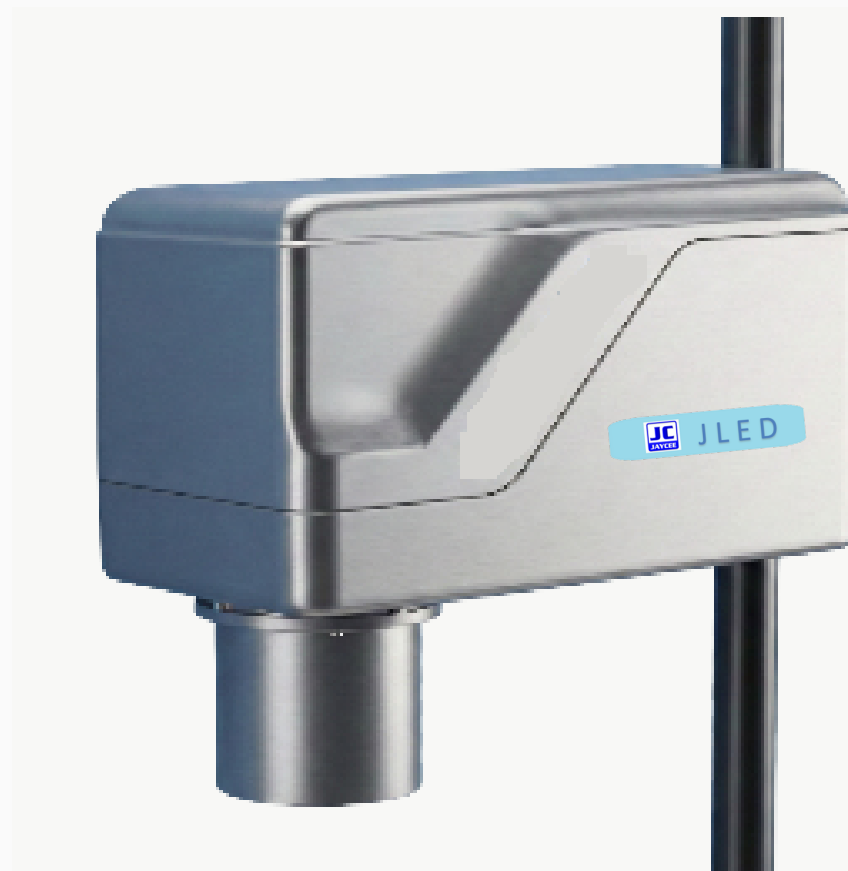




JLED-70 NIR Moisture Transmitter

The JLED-70 NIR Transmitter is a reliable and accurate device designed for Near Infrared (NIR) measurement. It provides stable outputs for measurement and control, making it suitable for various industrial applications.



REAL TIME ONLINE NON-CONTACT MOISTURE MEASUREMENT

Basic Specifications

Parameter	Value
Measured NIR Constituents	Moisture, Coatings, Fats/Oils
Moisture Range	Min. 0.1%, Max. 95%
Coatings Range	Min. 0.1gr./m, Max. 200 gr./m
Fats/Oils Range	Min. 0.1%, Max. 50%
Accuracy	Moisture: +/- 0.1%, Coatings: +/- 0.1 gr./m, Fats/Oils: +/- 0.2%
Repeatability	Moisture: +/- 0.1%, Coatings: +/- 0.1 gr./m, Fats/Oils: +/- 0.2%
Product Distance	8-18 inches (200-450mm)
Calibration Codes	100
Response Time	1-999 seconds
Power	90-260VAC, 50/60 Hz, 40 watts
Outputs	4-20mA, 0-10V (isolated), RS-232 & RS485

Typical constituents include:

O–H for Moisture & Alcohol
C–H for Oils, Fats, Adhesives & Plastics
N–H for Proteins, Ammonia & Amines

Typical applications include:

Wood Products

- Particle board
- Fiberboard
- Hardboard
- Hog Fuels
- MDF Board
- Oriented Stand Board

Food Products

- Snack Foods
- Pet Foods
- Coffee
- Starches
- Milk powders
- Cookies & Crackers
- Cereals

Tobacco Products

- Whole Leaf
- Lamina Strips
- Stems
- Cut
- Expanded
- Chewing Tobacco

Paper Converting

- Moisture & Coatweights
- Re-moisturizing
- Hot Melts
- Extruded Plastics
- Pressure Sensitive
- Carbonless Coatings
- PVB Films

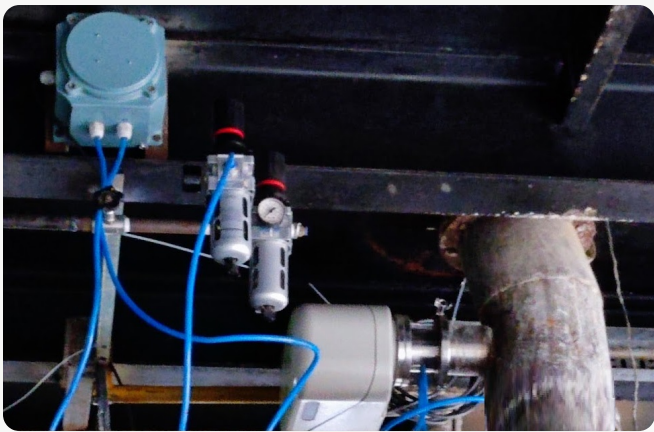
Chemicals & Minerals

- Crumb Rubber
- PVC Powders
- Ceramics
- Fertilizers
- Detergents
- Soaps
- Lime Coke
- Iron Ore
- Green Mix
- Green Pallet
- CDQ & Non CDQ Coke



Powder Sampler Installation for Vertical

The NIR powder Sampler facilitates accurate NIR measurements of moisture or active ingredients in materials conveyed by gravity drop or air. Mounted easily onto conveyor ducts, this sampler collects samples via a stainless steel tube, offering user-selectable cycles for efficient measurement, air purging, and uninterrupted operation.



Powder Sampler

Soap production involves saponification of fats like tallow, coconut, or palm kernel to create liquid soap and glycerine. After pretreatment and saponification, glycerine is refined, and liquid soap is dried before pelletization using a vacuum spray drier. It adjusts pellet moisture content via steam pressure in the heat exchanger. It's installed horizontally on the exit chute for viewing through a window or insertion probe in enclosed chutes.



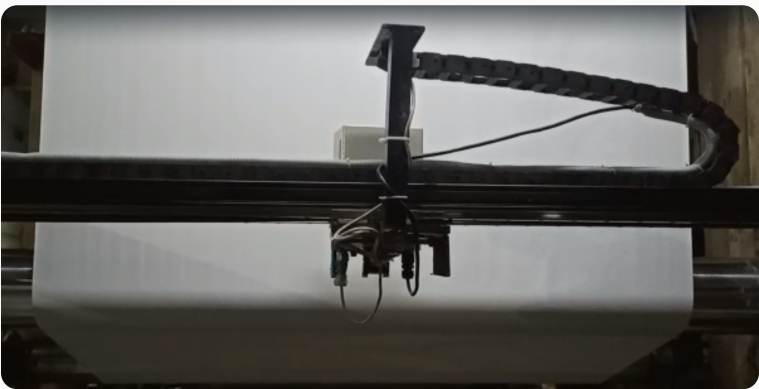
Horizontal installation on conveyor

An NIR Moisture Sensor is used in the tobacco industry to accurately measure moisture content during processing. It ensures uniform moisture in tobacco leaves, preventing overdrying or excess humidity. The sensor enables real-time, non-contact measurement directly on the production line. It also reduces waste, reprocessing, and energy consumption in tobacco manufacturing



Tobacco powder

The sensor is installed on a scanning mechanism that moves back and forth across the paper. This setup allows precise measurement of paper properties like moisture content or coat weight by scanning the entire paper surface. It ensures comprehensive analysis for accurate quality assessment.



Installation with scanner to move sensor on paperdacle

The online moisture meter is installed directly on the coke belt, providing real-time moisture measurements as the material moves. Sensors continuously assess moisture levels, enabling swift adjustments and quality control during coke production.



Installation on coke application

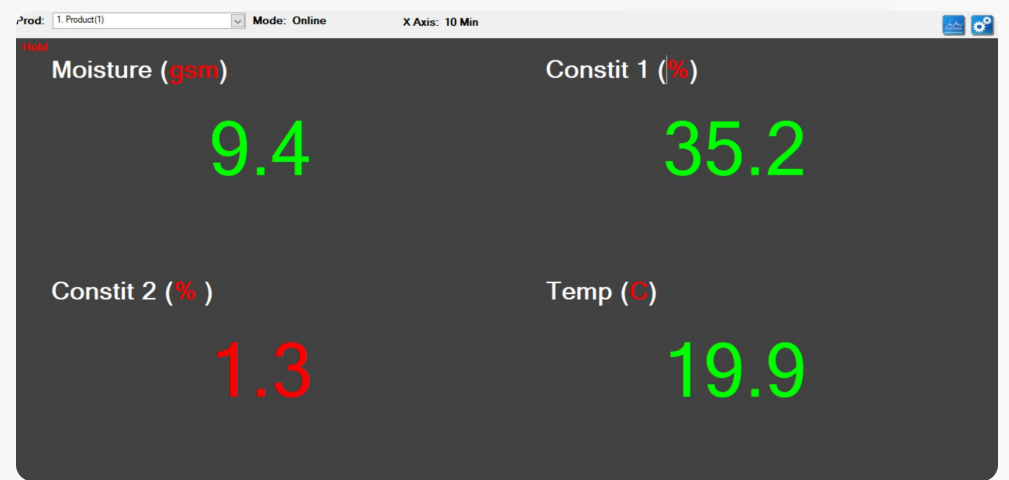
Dimensions



NIR Moisture Meter



Display



Product Features & Improvements:

Technology Enhancements:

- New Microcontroller with Dual-core architecture.
- Upgradable Sensor Firmware via USB or serial.
- Adjustable Filter Wheel Speed controlled through software.
- Temperature-Controlled Detector for improved stability.

Functional Upgrades:

- Enhanced Measurement Accuracy through full signal sampling.
- Built-in Cooling Panel and Air Purge Assembly for optimization.
- Ergonomically Sound IP67 Cast Aluminum Enclosure for durability.

Interface & Compatibility:

- Databus & Software Interfaces:
 - Optional Bus Interfaces: ProfiNet, ProfiBus.
 - Ethernet IP, Modbus TCP compatibility.
 - Software: Window-based standalone program,