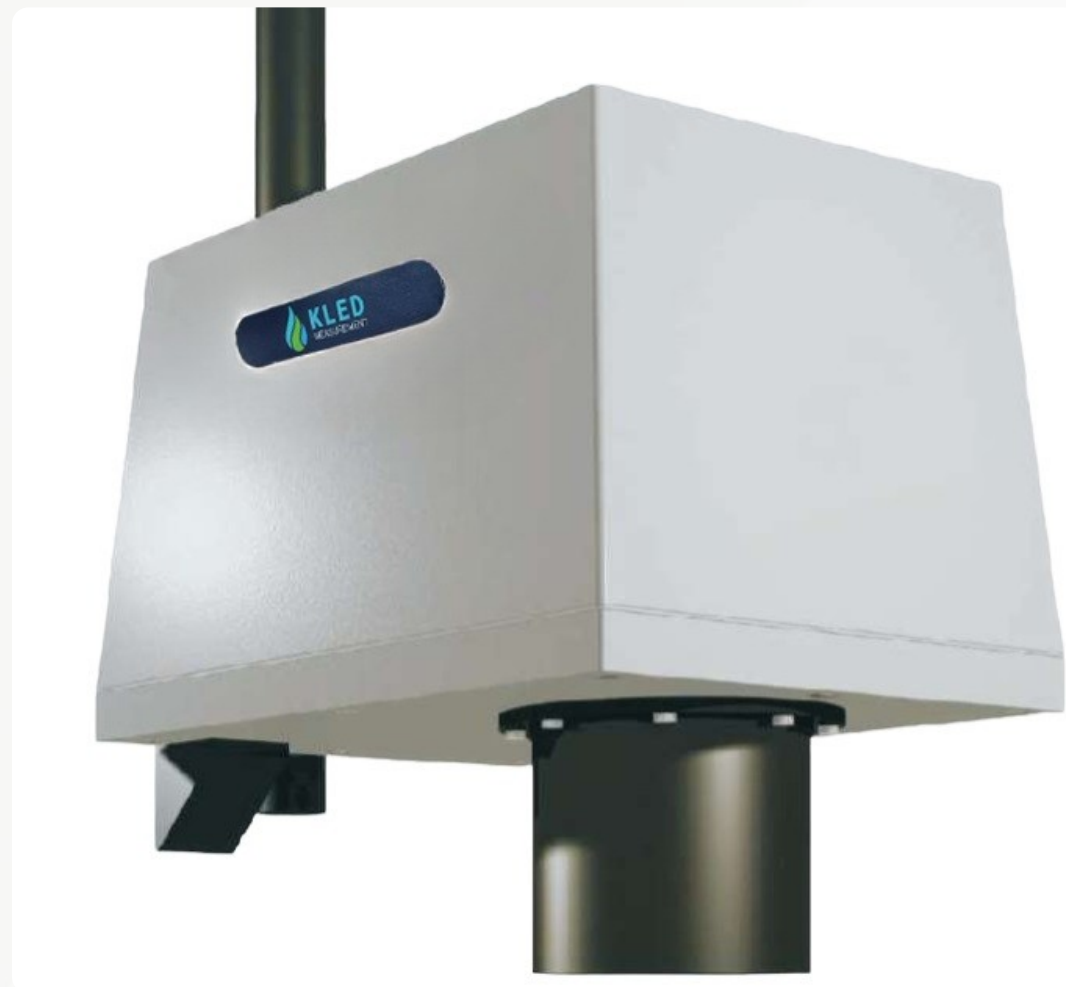




KLED-70 NIR Moisture Transmitter

The KLED-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
- Hardboard
- MDF Board
- Fiberboard
- Hog Fuels
- Oriented Strand Board

Food Products

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

Tobacco Products

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

Paper Converting

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

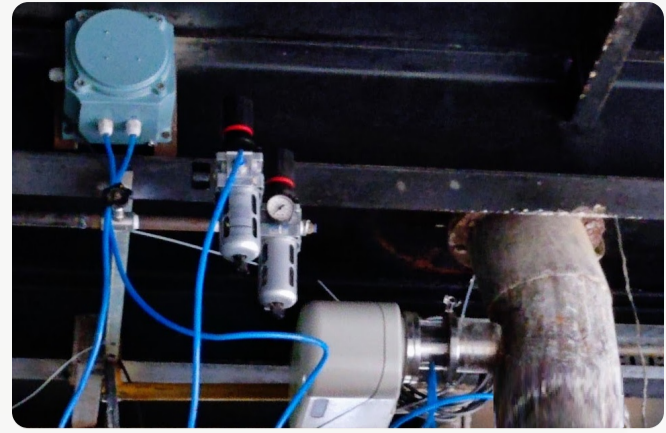
Chemicals & Minerals

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



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.



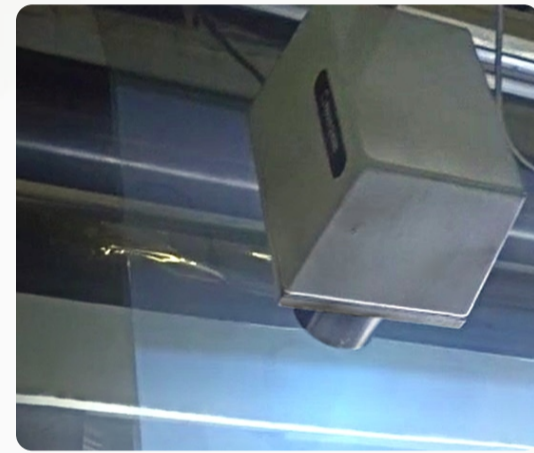
Powder Sampler

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

NIR sensors in PVC sheet production measure moisture and coat weight simultaneously during coating. Vital for quality, these measurements occur on the running sheet, ensuring continuous monitoring and control for consistent quality throughout production.



Vertical single point installation

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



Front View

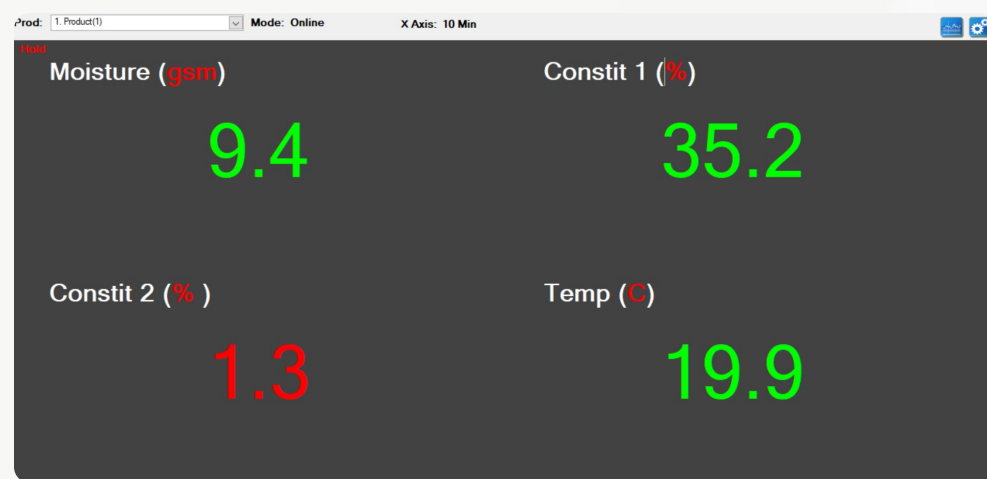


Bottom View



www.kledmeasurement.com

contact@kledmeasurement.com



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,