KLED

MEASUREMENT

KLED 70

Non Contact Near Infrared (NIR)
Online Moisture Transmitter

KLED
Measurement

KLED-70

- Connects directly to host computers
- No Operator Interface required
- Powered at the MT56 Transmitter
- All Analog Outputs, Digital and Ethernet interfaces directly from the Transmitter
- 5.7" Operator Interface/Display (optional)

KLED Viewer

Software is a proprietary Windows-based package. It monitors all functions and allows an operator to insert set-up parameters, perform or adjust calibrations, select product codes, examine internal diagnostic values and view trends of moisture and temperature
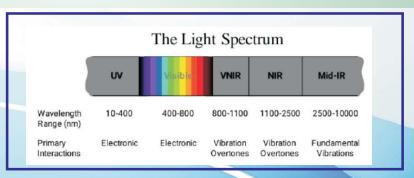

Moisture (%)	Coat Weight (GSM)
9.3	35.1
Brightness	Temperature (°C)
1.3	19.9

Kled Soft

KLED-70 Features & Improvements

- New micro controller, high performance, dual core architecture. One core dedicated to NIR signal acquisition, the other programmed to manage computations and communications options
- Samples entire NIR signal train for increased measurement accuracy
- Filter wheel speed adjustment through software
- Temperature controlled PbS detector for enhanced stability
- Built in cooling panel and Air Purge Assembly
- Ergonomically sound IP67 aluminum enclosure

The Light Spectrum

	UV	Visible	VNIR	NIR	Mid-IR
Wavelength Range (nm)	10-400	400-800	800-1100	1100-2500	2500-10000
Primary Interactions	Electronic	Electronic	Vibration Overtones	Vibration Overtones	Fundamental Vibrations

Dimensions: NIR

Front View

7.19"

10.25"

16.95"

Bottom View

70"

Proprietary cable connection
to Operator Interface

Dimensions : Display

6.8

7"

7.3"

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

KLED Measurement

Specifications: KLED 70-P

Measured NIR Constituents:	1, 2 or 3 simultaneously
Moisture Range:	Min. 0.1%, Max. 95%
Coatings Range:	Min. 0.1gr./m, Max. 200 gr./m
Accuracy: (subject to application and product type)	+/- 0.1%
	+/- 0.1 gr./m
Moisture	+/- 0.2%
Coatings	6-14 inches (150-350mm)
Repeatability:	50
Product Distance:	1-999 seconds (User Selectable).
Calibration Codes:	90-260VAC, 50/60 Hz, 40 watts
Response Time:	4-20mA, 0-10V (isolated), RS-232 & RS485
Power:	7.9kg/IP67, Cast Aluminum/Pressed Steel
Outputs:	0-55 °C (32-131°F) with water
Weight/Enclosure:	84°C (183.2°F) with air cooling
Ambient Temperature:	Available
Air Purge:	

Specifications: Operator Interface

Display:	5.6 inch Color Touchscreen
Languages:	User Selectable
Power:	90-260 VAC 50/60 HZ
Cable:	10 ft (3 meters) standard
Enclosure:	Cast Aluminum
Wi-Fi Transfer:	Optionally available

Maintenance:

Warranty:	24 months
Routine Cleaning:	Not Required
Calibration Verification:	Calibration Check Standard
Cooling:	Available

Databus & Software Interfaces:

Optional Bus Interfaces:	ProfiNet, ProfiBus, Ethernet IP Modbus TCP,
Software:	DeviceNet Window-based Stand-alone Program or OPC-DDE Server

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