NOVA SERIES

GUARDIAN Cross Direction Web Profile Scanning Frame System

Specifications: Scanning Frame

Power:	90-260VAC 15A	
Outputs:	• 3x 4-20mA Selectable sources	
	• Live NIR Value • Scan NIR Average Values	
• Live Temperature & Scan Temperature Average Value		
Inputs		
	Sensor Window Purge	
Ambient Temperati	ıre: 0-50°C (32-120°F) with	
	air cooling up to 80°C (160°F)	

Specifications: Operator Interfaces

Touch Screen PC – Windows based

Scan Average Trends

NIR Constituents:	1 or 2
Product Temperature:	80°C (160°F)
Recipe Codes:	Unlimited
Communication to Frame:	Ethernet
Power:	90-260VA
Multi Frame Operation:	19" Screen – Larger Optional

12" Touch Screen

Non-PC based, Cross Web Profile,

Single Frame Operation, Machine Direction Trend Recipe Codes: ____

5.7" Touch Screen

Non PC based, Single Frame Operation, Digital Displays Only		
NIR Constituents:	1, 2 or 3	
Product Temperature:	80°C (160°F)	
Recipe Codes:	100	
Communication to Frame:	RS485	
Dayyor	24VDC from Framo	

NIR Measurements:

Moisture Range:	Min 0.1%, Max 95%
Coatings Range:	Min 0.1 GSM, Max 250 GSM
Moisture Accuracy:	±0.1%
Coatings Accuracy:	±0.1 gr/m
Repeatability:	±0.2%

Maintenance:

Warranty:	24 months Parts/Labor
Routine Cleaning:	None Required
Calibration Verification:	Calibration Check Standard
Cooling	Vertex Air Cooler (entional)

CE Compliance

Low Voltage Directive



PT 2328 Pinggiran Golf Kemumin, Pengkalan Chepa Kota Bharu, Kelantan 16100 T/Fx: 011 60 9773 1352

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For more information on Process Sensors products, visit our website at:

www.processsensors.com

OPC-DDE Server **Dimensions: MCTTransmitter**

Fieldbus Interfaces (for non-profile data)





Dimensions: Operator Interface



Bottom	View



Scanning Frame: Available in 36"-160" widths

PROCESS SENSORS







NOVASERIES GUARAN Cross Direction Web Profile Scanning Frame System

Leading Applications:

- Hot Melt & Film Thickness
- Wet End Water Based Coat Weight
- Dry End Organic Coat Weight
- Exit and Inlet Dryer Moisture
- Re-Moisturizers
 (LAS, Steam Curtains and Water Decks)

Measure Coatings and Moisture on:

- Paper
- Release Liners

Narrow

Webs

Other

Coatings

Laminations

Substrates

- FilmFoil
- FoilPackagingMetalMaterials
- ri re car
- Textiles
- Non-Woven
- Extrusions
- ______
- Foam
- Tags
- Tapes
- Labels

- Maintain Uniform Web Profile
- Reduce Edge Curl and Lay Flat Issues
- Improve Quality Assurance and Control

Edge curl and lay flat issues are a problem in the label and converting industry. Uneven moisture stratification can cause shrinkage or expansion of cellulose fibers. Curled stock is a problem for printing and packaging. Coatings can also get thinner or thicker at the edges. A NIR transmitter cross directional web profile greatly helps to reduce curl or coating issues and improve process control operation.

Benefits of Near Infrared Technology

- · Accurate, Fast, Reliable & Low Maintenance
- No Government Regulations
- Easy Calibration, Operation & Standardization
- Best Return On Investment

The Near Infrared (NIR) Operating Principle

The MCT transmitter shines NIR light wavelengths, selected specifically by PSC, for the measurement and application being performed, typically 1.94 μ for moisture or water based coatings and 2.34 μ for hydrocarbon depositions or film thickness. The NIR light is then directed onto the product being measured, normally a moving web and measures the returned energy to provide a calibrated display of percent moisture, GSM, #/ream or other engineering units. Additionally, IR web temperature can also be built into the MCT Nova Series Transmitter.

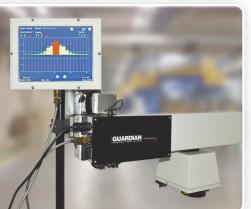
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Choose Your Nova Series Guardian



Guardian CD Web Profile System Industry Standard

The Guardian Profile System connects to a PC with a 19" Display at a Central Console. Larger displays, up to 65", for multiple scanners and measurements, can be integrated into a single distributed system. The Guardian System can also be operated manually or via a Human Machine Interface (HMI).



Entry Level Profile System

Process Sensors Guardian Cross
Direction Web Profile System
can be as simple and inexpensive
as an automatic scanning frame
with 12" Operator Interface (OI) for
profile display and controls
mounted on frame end.



Simple Cross Direction Scanning System with Digital Display

This system allows for automatic scanning across web or jogging to fixed position for machine direction measurement and display on a 5.7" touch screen with alarms, alerts and analog and digital outputs.

Guardian System Features:

- Cross Direction Zoned
 Web Profile
- Zone, Profile and Roll Averages
- Roll Reports and Data Archiving
- Designated Lane and Machine Direction Measurements

Guardian System Components

- MCT Nova Series Near Infrared Transmitter
- Automatic Industrial
 Scanning Frame
- Automatic Web Edge Detection Option
- Operator Interface and PC Based Software Systems
- Alarms, Alerts, Scan
 Speed, Product Recipes,
 Diagnostics
- Wall, Console, Arm Bracket and Pedestal Housing Options
- Ethernet Communication and Analog Outputs
- Central and Local Display Options

