Wood Products On-line NIR Smart Sensor

MCT460-WP

Continuous moisture and constituent measurement for wood processing

IMPROVE PRODUCT QUALITY & CONSISTENCY

To maintain consistent product quality, increase yield, maximize efficiency and minimize waste, the Wood Products On-Line Smart Sensor from Process Sensors Corporation (PSC) enables precise analysis of moisture and additional constituents for quick return on investment.

With proven performance in all harsh wood production conditions, the MCT460-WP is built to last, simple to install and virtually maintenance free for years of reliable, consistent results.

MCT460-WP ADVANTAGE

- Simple to operate, integrate and standardize across multiple lines and locations

- Easily connects to closed loop control systems or local alarms

- Rugged cast aluminum enclosure withstands the hot & dusty conditions found in wood processing facilities

- Proprietary temperature controlled detector ensures measurement stability in arduous environments

RAPID, CONTINUOUS MEASUREMENTS

- Achieve tighter dryer and feed rate control
- Non-contact, continuous on-line measurement for rapid adjustments
- High accuracy and repeatability
- Unaffected by relative humidity, changes in product temperature, ambient light and high ambient temperatures

SIMPLE ACCESSIBILITY & SERVICEABILITY

The Wood Products On-line NIR smart sensor is fully modular with all components easily replaceable in the field within minutes. It is easy to troubleshoot with advanced on board diagnostics and includes a standard two year comprehensive warranty.

MCT460-WP Applications and Specifications

The MCT460-WP Wood Products On-Line NIR Smart Sensor is used in many wood applications including:

- Oriented Strand Board (OSB)
- Particle Board
- Fiberboard (MDF)
- Wood Based Panelboard
- Sawdust
- Wood Pellets
- Hog Fuel
- Pine/Wood Shavings

SIMULTANEOUS CONSTITUENT MEASUREMENT

- Moisture
- Wax
- Resin
- Product Temperature

VIEWER SUITE SOFTWARE

Proprietary ViewerSuite Windows® - based PC Software program allows operators to insert set-up parameters, perform or adjust calibrations, select product codes, examine internal diagnostic values and remotely view moisture and temperature trends.

SPECIFICATIONS: MCT460-WP NIR SENSOR

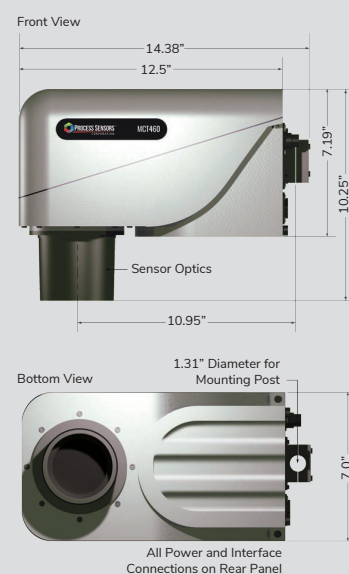|	
Measured NIR Constituents:	1, 2 or 3 simultaneously
Accuracy: (subject to application)	
Moisture	+/- 0.1%
Resins	+/- 0.2%
Moisture Range:	
Wet Basis	Min. 0.1% Max. 60%
Dry Basis	Min. 0.1% Max. 400%
Transmitter/Product Distance:	8-18 inches (200-450mm)
Calibration Codes:	100
Outputs:	4-20mA, 0-10V (isolated), RS-232 & RS485
Weight/Enclosure:	19 lbs. (8.6kg)/IP67, Cast Aluminum
Ambient Temperature:	0-50°C (32-120°F) with water or air cooling up to 80°C (160°F)
Optional Operator Interface:	5.7 inch Color Touchscreen LCD, 13 User Selectable Languages

SPECIFICATIONS: OPERATOR INTERFACE

Power:	From MCT460 Sensor or Local
Cable:	10 ft (3 meters) standard
Enclosure:	Cast Aluminum

DATABUS & SOFTWARE INTERFACES

Optional Bus Interfaces	ProfiNet, ProfiBus, Ethernet IP, Modbus TCP, DeviceNet

MCT460-WP DIMENSIONS

Front View
14.38"
12.5"
7.19"
10.25"
Sensor Optics
10.95"

Bottom View
1.31" Diameter for Mounting Post
7.0"
All Power and Interface Connections on Rear Panel

OPERATOR INTERFACE

Front View
12.00"
4.9
6.50"
10.00"

Bottom View
3.0"

Request a Demo Today!

Call us at (508) 473-9901 or visit www.ProcessSensors.com/wood

Our experienced team is eager to answer your application questions and demonstrate how our technology to can solve the challenges you face every day.

Featured Accessories for Wood Processing

IR Temp Sensor

Enables simultaneous product temperature measurement. No additional hardware or wiring is required.

Fieldbus Module

Allows the sensor to communicate directly with control systems via Ethernet, Devicenet, Profibus, ect.

Snorkel Sampler

Enables measurement of particulate products when the flow is discontinuous or product density is minimal.

Cal Check Standard

Used to verify sensor stability over time and transfer calibrations between sensors.

For a complete list of accessories, visit our website.

THE PSC ADVANTAGE

Process Sensors Corporation, a KPM Analytics company, is a leading supplier of NIR and IR sensors and systems to Fortune 500 manufacturing companies and small, privately held organizations in industries worldwide.

With sales and application support offices around the world, Process Sensors Corporation's dedicated experts are committed to the long-term success of our customers from initial installation and training to on-site support and product enhancements. We pride ourselves on technical competence and customer satisfaction.

To speak with an NIR or IR expert about your application, visit our website or call us today.

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CORPORATION

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