

NOVA SERIES

MCT466 QuikCheck

Rugged NIR Tester for Use at Line





NOVA SERIES MICT 4 5 5 QuikCheck

Rugged NIR Tester for Use at Line



Low fat potato chips



Clear film thickness



Moisture in tobacco

Nova Series

Proven, Reliable Performance

The **MCT466 QuikCheck** is a reliable and sturdy at-line, NIR Tester for use in harsh manufacturing environments. The MCT466 QuikCheck is routinely used to measure moisture in samples taken from the production line. However, other measurements can be made, including oils, protein, film thickness, coating weights, nicotine and sugars.

The Near Infrared (NIR) Operating Principle

Shining light at specific NIR wavelengths causes common molecular bonds to vibrate and absorb energy. By comparing the absorbed energy at "measured" wavelengths to non-absorbing "reference" wavelengths, the MCT466 QuikCheck can accurately and repeatably measure moisture, oils, fats and other parameters based on the samples' chemical composition.

The O-H bond of water (H-O-H) vibrates at 1.94m and 1.43m. The H-C bond of organic hydrocarbons and oil vibrates at 2.34m and 1.72m. The appropriate overtone wavelengths are selected based on concentration levels of the component to be measured.

MCT466 QuikCheck Features

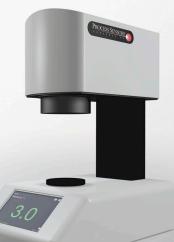
- Bright Touch Screen LCD
- Programmable Turntable automatically rotates
- Rugged Polycarbonate Construction
- Calibration Software included
- · Diagnostics available through LCD
- USB for data download to memory stick
- Serial output for printer or bar code reader
- 200 on-board product codes

Simple, Easy, Reproducible Results

- · Fill sample dish to constant volume
- Place dish onto MCT466 QuikCheck
- Dish automatically rotates
- Wait 10 seconds
- Read percentage H20

Sample Preparation

Many products require no sample preparation. Sampling error is reduced because of the rotating dish that permits the MCT466 QuikCheck optics to "see" multiple surfaces and average hundreds of measurement readings. However, some products can be relatively thick, with moisture trapped inside. In these cases, it is wise to break up the sample so that the internal moisture is exposed to the surface.



APPLICATIONS INCLUDE:

Food Products

- Coffee
- Breakfast Cereals
- Soy & Corn Meal
- Cookies & Crackers
- Milk Powders

Pet Foods & Animal Feed

Wood Products

- Particle Board
- Oriented Strand Board
- Medium Density Fiberboard
- · Sawdust

Tobacco Products

- Cut
- Chewing
- Stems (Ground)
- · Whole Leaf (Ground

Converting

- Coat Weight
- Adhesive Thickness
- PVB Film Thickness

Snack Foods

- Potato Chips
- Corn Chips
- Tortillas
- Popcorn
- Pretzels (Ground)
- Pork Rinds (Ground)

Chemicals/Mineral

- PVC Powders
- Ceramic Powder
- Fertilize
- Detergents
- Ores



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The Innovative New NOVA Series

The **MCT466 QuikCheck** can be configured to measure up to 3 components in a sample. The component of interest most of the time is moisture. Once a sample is place onto the MCT466 QuikCheck, it is automatically rotated, and the results are displayed within 10 seconds. Simple to operate, the MCT466 QuikCheck produces accurate and repeatable results.

1, 2 or 3 simultaneously

5.7 inch Color Touchscreen LCD

User Selectable

HEADQUARTERS

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Specifications: MCT466 QuikCheck

Measured NIR Constituents:

Moisture Range:	Min. 0.1%, Max. 95%
Coatings Range:	Min. 0.1 gr./m, Max. 200 gr./m
Fats/Oils:	Min. 0.1%, Max. 50%
Accuracy: (subject to application and product type)	
Moisture:	+/- 0.1%
Coatings:	+/- 0.1 gr./m
Fats/Oils:	+/- 0.2%
Repeatability:	+/- 0.2%
Calibration Codes:	200
Power:	90-260VAC, 50/60 Hz, 40 watts
Weight:	20 lbs. (9.07kg)
Construction:	Hygienic Polycarbonate

Maintenance:

Languages:

Warranty:	24 months Parts/Labor
Routine Cleaning:	During scheduled plant maintenance
Calibration Confirmation:	Calibration Check Standard

Dimensions: MCT466 QuikCheck





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

www.processsensors.com

