

## NOVA SERIES

# MCT466 QuikCheck

Rugged NIR Tester for Use at Line

### 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.

#### Specifications: MCT466 QuikCheck

Measured NIR Constituents: \_\_\_\_\_ 1, 2 or 3 simultaneously  
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)

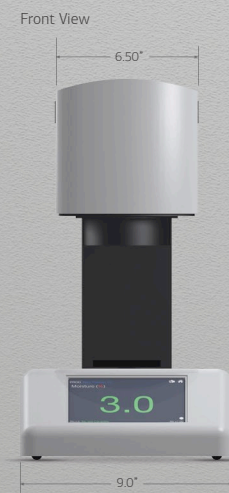
Moisture: \_\_\_\_\_ +/- 0.1%  
Coatings: \_\_\_\_\_ +/- 0.1 gr./m  
Fats/Oils: \_\_\_\_\_ +/- 0.2%

Repeatability: \_\_\_\_\_ +/- 0.2%  
Calibration Codes: \_\_\_\_\_ 200  
Power: \_\_\_\_\_ 90-260VAC, 50/60 Hz, 40 watts  
Weight: \_\_\_\_\_ 20 lbs. (9.07kg)  
Construction: \_\_\_\_\_ Hygienic Polycarbonate  
Display: \_\_\_\_\_ 5.7 inch Color Touchscreen LCD  
Languages: \_\_\_\_\_ User Selectable

#### Maintenance:

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

#### Dimensions: MCT466 QuikCheck



#### HEADQUARTERS

##### United States

Process Sensors Corporation  
113 Cedar St.  
Milford, MA 01757 USA  
Tel: (508) 473-9901  
Fax: (508) 473-0715  
info@processsensors.com

##### Europe

Process Sensors Europe  
Unit 4, Adelaide House  
Corbygate Business Park  
Corby, Northants NN17 5JG UK  
Tel: 01536 408066  
Fax: 01536 407813  
info@processsensors.com

##### Eastern Europe

Process Sensors Polska  
ul. Erazma z Zakroczymia 12 lokal 2  
03-185 Warszawa  
Tel: (48) 22 6739526  
Fax: (48) 22 6739527  
Gsm: (48) 509 202759  
tomasz@processsensors.com

##### ASIA - Process Sensors Asia

PT 2328 Pinggiran Golf  
Kemumin, Pengkalan Chepa  
Kota Bharu, Kelantan 16100  
Malaysia  
T: 011 60 17620-2806  
Fx: 011 60 6601 4588  
hussin@processsensors.com

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

**www.processsensors.com**

PROCESS SENSORS  
CORPORATION



## NOVA SERIES

# MCT466 QuikCheck

Rugged NIR Tester for Use at Line

PROCESS SENSORS  
CORPORATION



**OneTemp**<sup>pty ltd</sup>  
MEASURE | CONTROL | RECORD  
www.onetemp.com.au  
1300 768 887





# NOVA SERIES MCT466 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.

**OneTemp**<sup>®</sup> pty ltd  
MEASURE | CONTROL | RECORD  
[www.onetemp.com.au](http://www.onetemp.com.au)  
1300 768 887

### 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 H2O

### 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/Minerals

- PVC Powders
- Ceramic Powder
- Fertilizer
- Detergents
- Ores

PROCESS SENSORS  
CORPORATION

For more information on Process Sensors instruments and accessories, visit our website at: [www.processsensors.com](http://www.processsensors.com)