

# 868 Laboratory Moisture Sensor



Available sample dish sizes:  
5", 7", 9", and 13"  
(120, 175, 225, 325 mm)

MoistTech's 868 wide range of applications include:

Food  
Snack Food  
Chemical  
Pharmaceutical  
Mineral  
Plastic  
Paper  
Wood Products  
Renewable Energy  
Tobacco  
Bio-mass  
And many more . . .

## Applications

MoistTech has the worldwide reputation for its exceptionally accurate NIR (near infrared) sensors and software for moisture testing and measurement and control. The newly developed 868 Moisture Sensor and software can be configured and calibrated for numerous components in virtually any application.

## Product Information

The 868 NIR (Near Infrared) Moisture Sensor is MoistTech's at-line moisture sensor with a large rotating sampling dish for the rapid moisture analysis of raw and non-homogenous materials. Precision filters and algorithms have been incorporated into the sensor to optimize performance under the demanding conditions in the manufacturing industry. The 868 Sensor incorporates MoistTech's well-proven IR-3000 optics and electronics providing superb accuracy, and resolution of any similar technology gauge. Unsurpassed in performance, stability, reliability, maintainability and cost of ownership the 868 Sensor is the answer to controlling moisture in your product.

Ideal for laboratories or near processing lines MoistTech's 868 Sensor features a removable, rotating sampling dish, available in a variety of sizes that was designed for rapid moisture determination of non-homogeneous products and raw materials. Due to the large sample size, the 868 has greater accuracy of any other laboratory NIR sensor on the market within .01% and as fast as 3 seconds.

With the 868 Sensor you will dramatically improve product quality, providing both energy savings and potential increased productivity with lower material losses. Additionally, it has a one time calibration, maintenance free, drift free optical design that allows operating personnel to confidently make immediate process adjustments based on real-time measurements.

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MOISTURE MEASUREMENT & CONTROL FROM LAB TO LINE

# 868 Laboratory Moisture Sensor for Measurement Control

## 868 Sensor Standard Features include:

- ◆ 16 bit data resolution for unsurpassed accuracy and response
- ◆ Built in Touch-Panel with PLC/HMI
- ◆ Pre programmed measurement algorithms and calibrations
- ◆ Customized NIR filter selections for your application
- ◆ Ethernet Connectivity (2 3 RJ45)
- ◆ Non volatile FLASH data storage
- ◆ 1 Removable 13" Sampling Dish
- ◆ 2 year warranty parts and labor

## 868 Technical Information

- ◆ Non-Contact
- ◆ Advanced digital filtering for noise free signal
- ◆ Very low energy use
- ◆ Surface Mount Technology
- ◆ Simple calibration procedure
- ◆ No routine recalibration needed
- ◆ No routine maintenance needed
- ◆ 50 products codes available

## Why MoistTech 868 Sensor?

- ◆ Low Cost
- ◆ Highest Accuracy
- ◆ Newest Technology
- ◆ Removable Sampling Dish
- ◆ Easiest Installation & Calibration
- ◆ Very Low Maintenance
- ◆ Most Advanced Software
- ◆ Surface Mount Electronics

## Benefits:

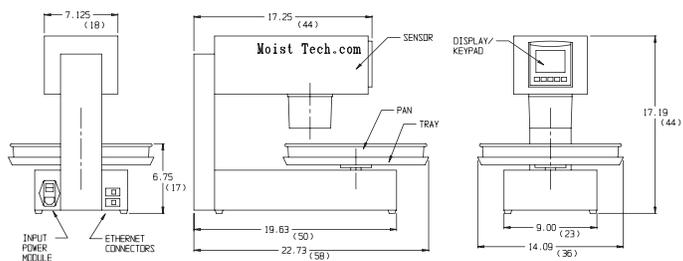
- ◆ Improved product quality
- ◆ Improved process efficiency
- ◆ Fast results
- ◆ Lower energy costs
- ◆ Less waste

## Sensor Display

The 868 Sensor incorporates a large color touch-screen PLC that offers the ability to set sampling times, calibration of up to 50 different product codes and data storage that is downloadable to your PC.



LABORATORY MOISTURE MEASUREMENT & CONTROL,  
NON-CONTACT, NON-DESTRUCTIVE INSTANT MEASUREMENTS



## Sensor Specifications

Measured NIR Constituents:	1, 2 or 3
Moisture Ranges:	0-0.1%, 0-100% and PPM Ranges Subject to Application
Accuracy (subject to application):	±0.1%
Repeatability:	±0.05%
Color Display:	3.6-inch, 9 cm LCD with touch-screen input
Calibration Codes:	50 Standard, Stored in non-volatile Flash memory
Measurement Response Time:	Default to 12 seconds and as fast as 3 seconds
Weight:	24 lbs
Enclosure:	Durable Steel with beige powder coat paint
Dimensions:	23cm (9in) D x 50cm (20in) W x 43cm (17in) H
Power:	115-230VAC 50/60Hz 30W
Sample Holders:	13" D x 2" H-Standard, Also available 9", 7", 5"
Networking:	2-Ethernet TCP/IP Ports
Operating System:	Internal PLC/HMI
Outputs:	Data Transfer to PC Based Excel Worksheet
Calibration:	Factory Pre-Calibrated (Routine re-calibration is not required)
Reliability:	System Warranty 2 years. Lamp and Motor Lifetime (MTBF 20 years)

\*Above specifications are subject to application

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