

MoistTech Corp.[®]

Quick Start-Up Guide

Thank you for choosing MoistTech as your quality and process control specialist. To begin, follow these helpful hints for quickly getting your gauge set up and ready for service. *Please refer to the manual located on the enclosed USB for wiring diagrams and a detailed description of how to use the Configuration Software.*



1. Installation

Select a location that has a continuous flow of material, and mount the gauge over the conveyor measuring a distance 4-8" from the bottom of the light tube to the average material height. Longer or shorter distances may be used with adequate results, but it is recommended that the Sensor be installed as stated for optimum performance. A 1" (25 mm) diameter vertical or horizontal pipe that is welded to a structure free from vibration is highly recommended for mounting. The Air Purge nozzle will keep dust and debris from building up on the lens. Apply 1-2 psi of clean, filtered air to keep a positive pressure inside the nozzle.

2. Communication

Install the Configuration Software onto your computer. Configure your computer's IP address per the manual and connect an Ethernet cross-over cable to communicate with the gauge. Once this has been done, open the Configuration Software and click 'Find Networked Gauges'. Double-click 'DefaultID' and press Connect. Logging in with the Engineer's password 'engpass' allows you to change parameters and calibrate the gauge. Be sure to log out each time you are finished to prevent unauthorized access to gauge settings.

SEE #5 FOR CONFIGURING ETHERNET CONNECTION*

3. Calibration

Your gauge has been statically pre-calibrated by the factory for your application. Once the Sensor has been installed on-line, a simple offset calibration is required to zero in on the target moisture content. Go to the Calibration Page and use the following procedure:

- a. Select Calibration Method – Offset Method
- b. While the material is flowing beneath the gauge, press the 'Start' button and wait until the moisture reading is displayed.
- c. Press 'Stop' and immediately collect a sample from the line where it was measured and place it in an airtight container or plastic bag.
- d. Press 'Store Sample' to record the reading in the data table.

For technical assistance please contact one of our Application Engineers at 941-727-1800

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- e. Do a moisture analysis of your sample in a lab (oven test), then enter the true moisture content into the data table under the Lab column.
- f. Press the ‘Recalculate Coefficients’ button and note that the ‘C’ coefficient has changed.
- g. Press ‘Send Coefficients’ to conclude the calibration procedure.

4. Analog Outputs

There are three isolated 4-20mA outputs on the gauge. Each has been scaled to the range specified at the time the order was placed but can be modified to your liking at any time from the Configuration Program. *Please see the manual for wiring instructions.*

5. Configuring PC for Ethernet Communication

Ethernet communications allow a means of interfacing a gauge to a PC or a network using TCP/IP protocol. The advantages of Ethernet is speed of data transfer and distance of transmission. The following procedure documents a single gauge communicating directly with a PC using a **CAT5E crossover cable**. **In this communication, it is necessary to give both gauge and computer fixed IP addresses.**

- a. From the control panel go to ‘Network Connections’
- b. Right click on Ethernet connection and click on ‘Properties’
- c. A window titled ‘Ethernet Properties’ is displayed.
- d. Double click on Internet Protocol 4 (TCP/IPV4)
- e. Select the option to “use the following IP address” and manually type the IP address. Initially you should use the address 192.168.0.200 and Subnet Mask 255.255.255.0 (default), unless the gauge’s IP address has already been changed. In this case a suitable IP address must be used.
- f. Click OK and exit all previously opened windows.
- g. Failure to establish communications at this point may require additional configuration which is outlined in the user manual under Chapter 7 (located on the enclosed USB)

Additionally, please notate new IP address [if changed] from the factory stored address. Forgotten IP addresses need to be reset in MoistTech’s factory which require you to return the equipment to us for service.