Using the DICKEY-john GAC2100 Moisture Tester in the Scale Interface
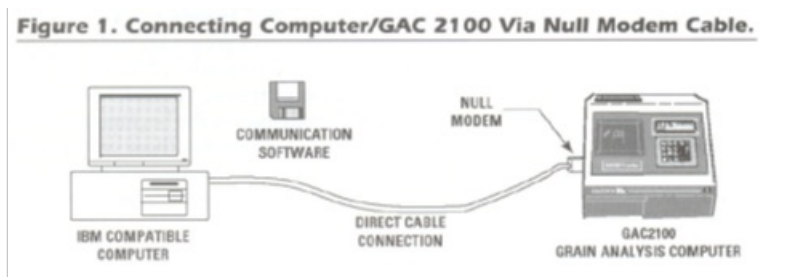
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Overview

The DICKEY-john GAC2100 Moisture Tester has ability to communicate with the Scale Ticket Interface through the PC's COM port. The Scale Interface will read in the moisture and test weight values from the DICKEY-john GAC2100 Moisture Tester.
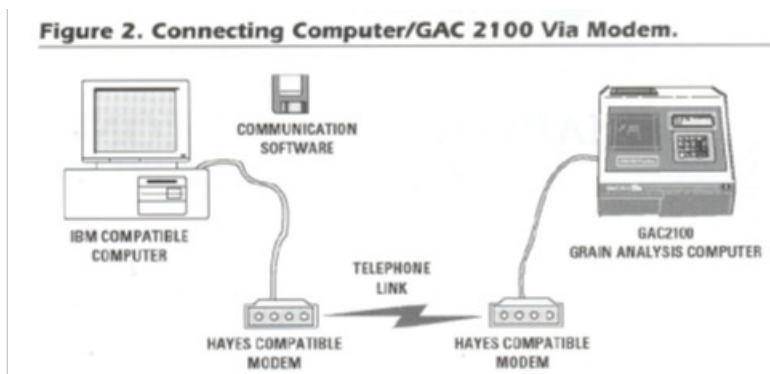
Setup

Option 1: Moisture Tester directly into the PC

Figure 1. Connecting Computer/GAC 2100 Via Null Modem Cable.

If the moisture tester can be plugged directly into the PC, plug a cable into the PC's com port. The other end of the cable will be plugged into a null modem which plugs into a com port (Com2 in our example) on the back of the moisture tester. Communication software from Dickey-John is not needed.

Option 2: Moisture Tester to PC via Modem

Figure 2. Connecting Computer/GAC 2100 Via Modem.

If the moisture tester needs to be connected to the PC via modem, connect the PC to a modem. Then, connect the moisture tester to another modem. The two modems should then be connected via a telephone link.

Dickey-john gac2100 Setup to Interface with Agvance Grain

From the Dickey-john main menu, select the Setup menu item (which on ours is number 4).

[Text Box][Text Box]

Next, select Com Menu (on ours it is number 7).

Once on the Communication Menu, select option for Com Port Select (on ours is number 1).

On the Com Port Selection, you will have to enter an Access code. This is specific for each Dickey-john machine and the user is suppose to change it when it is first setup. The default Access Code when the machine is new is 00.

After you have entered your access code, you will see the Com Port Selection window. This window will display the Automatic Results Output and the Manual Results Output. If it is the desire for Agvance Grain to read automatically, it is important to have COM2 as part of the selection. It can be either COM1/COM2 or just COM2. If it is currently set to be just COM1, I would suggest it be set to be COM1/COM2 instead of just COM1.

The next selection needs to be for the Manual Results Output. This is the back for the monitor to communicate with Agvance Grain when the print button is selected. Like the Automatic Results, it should include COM2 in the selection.

Next we need to go back to the Communication Menu and select the COM2 Format.

On the COM2 Format selection, the Output Format should be as displayed here. The CSV01 should be the selection. For the Line Terminator, the CR, LF selection should be used.

Note: LF, CR is not the same as CR, LF.

Go back to the communication menu and select the COM2 DATA SETUP.

Write down the baud, parity, data and stop bit information for later use.
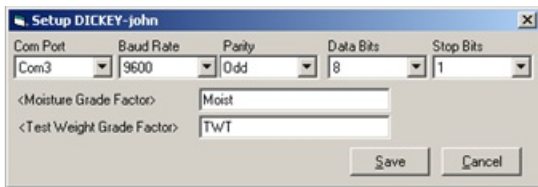
Go back to the communication menu and select the COM2 control.

Once you are on this screen, make sure the MODE is set to be Transmit Only.

This should conclude the setup of the monitor for communicating with Agvance Grain.

Agvance Scale Interface Setup / Moisture Tester

Com Port – this is the PC Com Port that the cable from the DICKEY-john GAC2100 Moisture Tester is plugged into.

Baud Rate – the communications speed – must match the baud rate of the DICKEY-john GAC2100 Moisture Tester.

Parity – used when communicating with the DICKEY-john GAC2100 Moisture Tester – must match the setting of the DICKEY-john GAC2100 Moisture Tester.
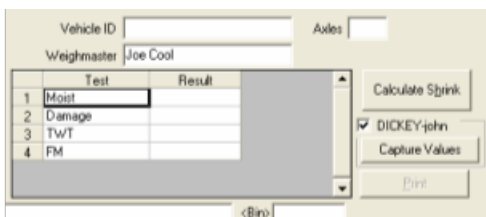
Data Bits – used when communicating with the DICKEY-john GAC2100 Moisture Tester – must match the setting of the DICKEY-john tester.

Stop Bits – used when communicating with the DICKEY-john GAC2100 Moisture Tester – must match the setting of the DICKEY-john GAC2100 Moisture Tester.

Moisture Grade Factor – double-click to select a moisture grade factor. The moisture grade factor selected will be used for all commodities.

Test Weight Grade Factor – double-click to select a test weight grade factor. The test weight grade factor selected will be used for all commodities.

Using the DICKEY-john GAC2100 Moisture Tester on the Scale Ticket

(grade factor grid on the Scale Ticket)

1. Check the DICKEY-john checkbox.

Note: The Dickey-john options on the Scale Ticket are not available if setup is not competed.

2. When moisture results are returned on the DICKEY-john GAC2100 Moisture Tester, the Capture Values button becomes enabled on the Scale Ticket.

3. Click on the Capture Values button to read the values into the grid.

4. If the results are not returned correctly, the user will receive a message. The user needs go to the DICKEY-john GAC2100 Moisture Tester and press the print button on the moisture tester. When the print button is pressed, the Capture Values becomes enabled to read the results.

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