

Using the Model 1100 for an Automated Grain Cleaner

Eason Products Used:

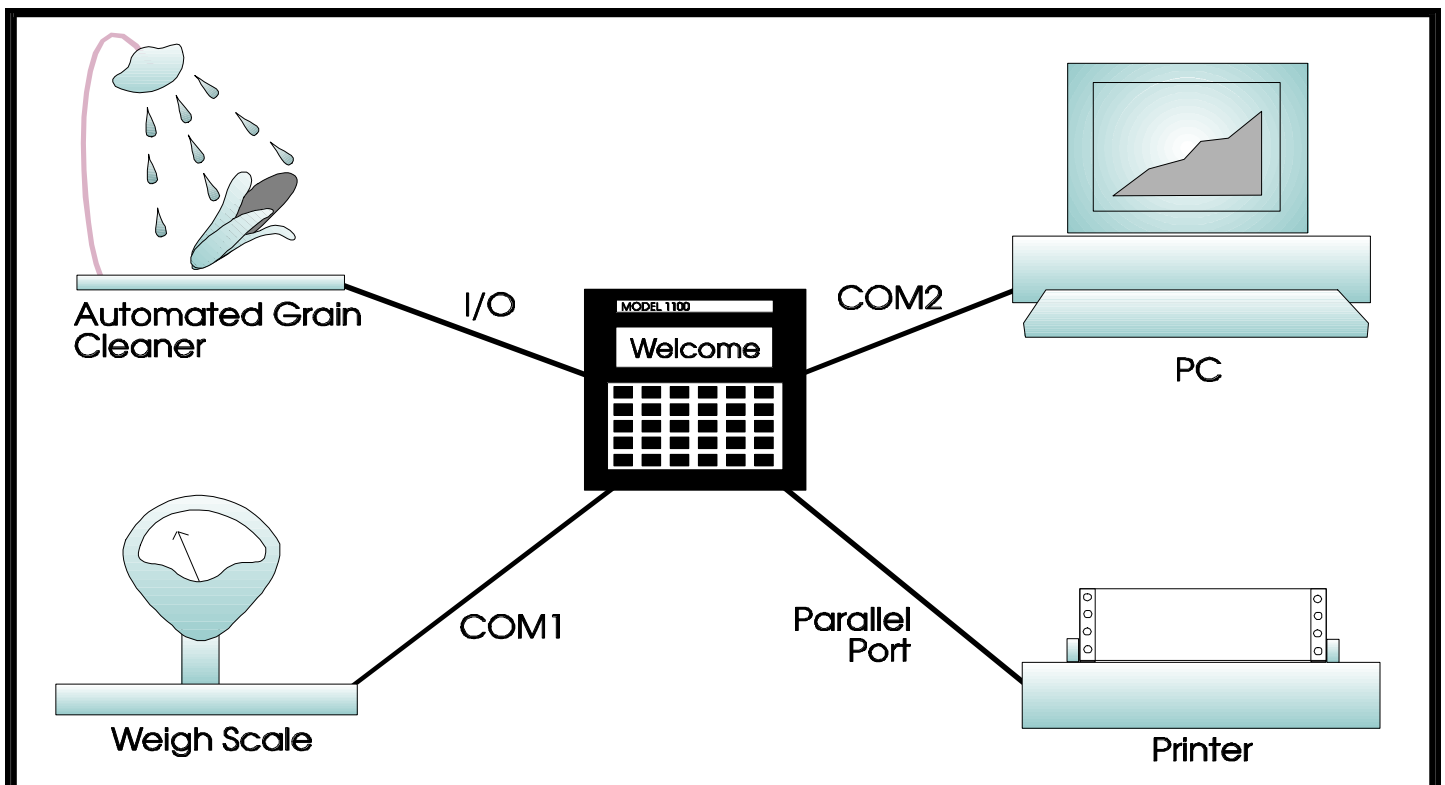
Model 1100-M02

Complimentary Products:

Standard PC

Machine Objectives & Motion Requirements:

- To have a simple, easy to read OI for machine setup and operation.
- Capability of RS232 access to weigh scale.
- To have 16-24 discrete I/O for current machine control and expansion.
- To calculate separate grain percentages and print them out.
- The ability to withstand temperate extremes, dirt, dust, water, and heavy operator usage.
- Eventual upload of information to the PC.



Eason Solution:

The Model 1100 handles the entire system. The display allows operators to do initial machine setup, from machine reset to diagnostics, and from grain selection to percentage parameter ranges. An alarm is generated and the machine is shutdown if a separation is out of range. The 1100 controls all sampling, separating, scale function, and timing. A sample is brought in and the the machine physically separates the grain into five bins. Each bin is consecutively loaded to the scale and weighed. The scale is then off loaded. The 1100 polls the scale via RS232 to get the weights, calculates the percentages, compares to parameters, and acts accordingly. finally, a print out of the results is done. The second COM port is also now relaying the results to a PC for logging and trending.

Eason Benefits:

The Model 1100 combined all their needs in one package. It gave their machine a quality, readable, attractive interface with the ability to control and connect to many different devices.

Submitted by:

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