

# Agricultural Fuel Consumption — Efficiency Comparison



## CUSTOMER

Manufacturer of agricultural & industrial vehicles  
Waterloo, IA

## APPLICATION

This customer wanted to do side-by-side fuel consumption comparisons of their product vs. their competitor's products. The object was to have a live demonstration of the consumption while the tractors are running on dynos.

## CHALLENGE

The system needed to be accurate enough to show differences in consumption of only .2 gpm and needed to include the ability to download the information to an on-site computer for easy display for the customer audience. It also needed to be easy to install and program because this project was being run and put together by the marketing department with little instrumentation experience. The system also needed to be versatile enough to be used on several different competitors' tractors.

## SOLUTION

A top-to-bottom solution was specified for this customer. Two complete sets (one for each tractor in the demo) consisting of 2 JVM-20KG meters, 2 DH-B hall effect sensors, 2 mating cables, 1 FEM-03A2 dual channel rate/total displays with analog output, and AW's FuelMon monitoring software.

Each system was designed to be identical and as "plug-and-play" as possible. Complete documentation on how to install the



*"I can't tell you how much I appreciate all the help you gave us on this system. You gave easy-to-understand instructions and seemed to know what I needed, even when I didn't. This is going to be a great tool for us to use to show in real time how our customers can save on fuel costs over our competitors."*



*continued:*  
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meters, program the FEM-03's, and run the software was included along with plenty of phone support for the users.

**RESULTS**

Installation of the system went well and proved to be exactly what the customer needed. Results were as expected and the demonstration system is set to be used at trade shows and other marketing events as needed.

*AW products supplied:*

- 4 JVM-20KG meters
- 4 DH-B hall effect sensors
- 4 mating cables,
- 1 FEM-03A2 dual channel rate/total displays with analog output
- FuelMon monitoring software

