

## Fuel Conservation Initiatives in Real Time

November 11, 2008- Wi-Tronix®, LLC (Bolingbrook, IL) Wi-Tronix Fuel Efficiency Monitor System (FEM) solution monitors the performance of a locomotive, scientifically calculates the unit's brake-specific fuel consumption, and communicates real time information on the effectiveness of your fuel conservation efforts in real dollars while your assets and operators are working in revenue service. As fuel costs soar, implementing a successful fuel savings program is necessary; having a way to monitor its success has an immediate positive impact to your bottom line.

### FEM System and how it works:

Wi-Tronix FEM system collects data from several sensors and the locomotive event recorder. Fuel flow meters are placed in the engine's fuel supply and return lines and provide instantaneous fuel consumption data. The locomotive's event recorder provides the relevant engine operational data including throttle notch, speed, engine state, reverser position and traction motor current. Additional sensors provide fuel level and ambient temperature.

The Wi-Tronix Wireless Processing Unit (WI-PU) receives sensor data every second through the event recorder. This process provides throttle notch, speed, engine output, reverser position and other engine operational data. After accounting for parasitic loads, the system calculates locomotive horsepower output. The fuel flow meters measure flow rates in the fuel supply and return lines. This information is communicated back to the WI-PU, which calculates the difference in the supply and return flow rates as the fuel burned in the engine.

The FEM system not only monitors fuel consumption, but links it to engine performance and operator actions as well. Wi-Tronix FEM system adds GPS, and on board alerts that will trigger to help zero in on specific data points. All data is wirelessly transmitted and stored in a back office for immediate use or later analysis. The FEM system enables identification of real fuel savings opportunities and, more importantly, validates the actual savings your initiatives are generating.

### Is the Wi-Tronix FEM System right for you?

- ✓ Are you responsible for proposing and validating fuel conservation initiatives?
- ✓ Are those latest engine modifications, component technologies, fuel additives and operating practices really yielding the savings you expected?
- ✓ What about after 12-24 months of service?
- ✓ How much real work are you getting out of each gallon consumed by your mobile asset?

Extensive static or mobile "Lab" testing can provide you with some of the answers to these questions, but neither can demonstrate how well these programs are working in the "Real World," the Wi-Tronix Fuel Efficiency Monitor System can!

### About Wi-Tronix, LLC:

Wi-Tronix, LLC, headquartered in Bolingbrook, IL, provides products and services to wirelessly monitor high-value mobile assets used in rail, marine and other commercial and industrial operations. Wi-Tronix's mission is to enable businesses to improve the operational efficiency, service reliability and safety of high-value mobile assets. For additional information visit the Wi-Tronix website at [www.WI-TRONIX.com](http://www.WI-TRONIX.com).

For more information on the Wi-Tronix Fuel Efficiency Monitor System contact:

### For Further Information:

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