



FPDat™

Because performance depends on knowledge



Having a productive and optimized operation starts with having good information on your equipment's performance and productivity. As the old saying goes, "you can't improve what you can't measure".



FPDat is a tool designed for collecting and analyzing information on the performance and productivity of heavy equipment. The system collects data on each production activity, transmits the data, and provides the machine operators with real-time feedback on their performance.

Functions

Display of key performance indicators

The touchscreen can dynamically display several key performance indicators. It therefore becomes possible to quantify the impact of your decisions and your work methods on your performance and the economics of your operation.

Capture of equipment utilization data

FPDat is equipped with sensors that continuously gather the data required to calculate equipment utilization rates. The operator can enter a delay code using the touchscreen each time production stops to explain the cause of the delay. By knowing the duration

and causes of downtime, it becomes possible to review the operating procedures and work methods. The result? An opportunity to increase utilization rates.

Navigation

The integrated navigation system lets FPDat determine and display a machine's position in real-time. FPDat can also display custom maps on the screen to show the operator the machine's position with respect to the planned interventions, to areas of concerns, and to other nearby machines. FPTrak users can also follow in real time on the internet how an operation is proceeding using similar maps.

Monitoring production

You can integrate your own parameters for measuring the machine's production or for any other relevant information with FPDat. For each type of operation being performed, the operator can save information on the work that has been completed. For example, the operator of a forwarder can indicate the quantity of each product unloaded at roadside after each trip, allowing estimation of the total volume of each product that has been harvested and brought to roadside.



FPDat™



FPTrak™

A Forest Operations Monitoring Platform by FPIinnovations.

Advantages

Increase your machine's utilization rate

Are you fully utilizing your equipment? Your bottom line depends on maximizing the utilization rate of your equipment. FPDat lets you obtain this crucial information in real-time. Comparing work time with unproductive time reveals clues that will help you increase the utilization of your equipment, thereby increasing your income.

Motivate your workers

Clear productivity objectives and up-to-date results are a source of motivation and success for your employees. When FPDat is integrated within a continuous-improvement process, you can work together with your employees to ensure the success of every cost-reduction project.



Photo credit: FInnovations

Characteristics

Software

- > Complete navigation system
- > Operator interactions:
 - Identification
 - Delay and activity codes
 - Performance reports and indicators
- > Data-entry system for production statistics
- > System-configuration functions

Hardware

- > Dimensions: 21.5×13.5×7.5 cm (8.5×5.3×3 in.)
- > Operating temperature: -20 °C to +60 °C
- > Storage temperature: -30 °C to +80 °C
- > Sealed case, with no fan
- > Power: FPDAT® includes a power module that protects the main unit against power surges and sudden losses of power. FPDat® requires an input voltage between 9 and 30 V, and consumes a maximum of 5 amps (max. 15 W).
- > Main unit:
 - CPU : Intel® Atom™ Dual Core processor D2550, 1.86GHz, 4GB SDRAM, with an 32 GB SSD (storage)
 - Operating system: Microsoft Windows Embedded standard 7
 - Inputs and outputs:
 - Internal motion sensor
 - 4 USB 2.0 ports
 - 2 serial ports (DB9)
 - 1 VGA port
 - 2 CAN ports
 - 4 digital inputs
 - Microphone input and audio output
 - GPS receiver: Hemisphere Crescent GPS, DGPS (WAAS) precision < 0.6 m (2 sigma)
- > 10.4-in. touchscreen with mounting kit
- > GPS antenna and protective dome for mounting on the machine's roof
- > Communications: FPDat can be equipped with a short-range Wifi modem (200 to 500 m) that can be used in combination with our FPCOM® Mobile technology, which can use either an FPCOM® satellite modem or a cellular modem (if cellular coverage is available).