



## A MULTI-PURPOSE DATALOGGER FOR HEAVY EQUIPMENT



Heavy equipment represents a major capital investment. For it to be cost-effective, it is important to ensure this equipment is used to its full potential.

The MultiDAT electronic datalogger was designed by FERIC specifically for measuring the utilization rate of heavy equipment involved in forestry operations. An analysis of MultiDAT data makes it possible to substantially increase the profitability of all types of operations using heavy equipment when part of a continuous improvement program.

### What can the MultiDAT datalogger do?

#### RECORD MACHINE MOVEMENT

MultiDAT is equipped with an internal sensor that detects machine movement but not motor vibrations. In many cases, simply having this information can provide a quick overview of production time.

#### RECORD THE USE OF MACHINE FUNCTIONS

When linked to sensors (up to four) supplied by the user, MultiDAT can record the use of the machine's functions. This makes it possible to analyze how long the machine functions are activated or to count how many times they are activated.

#### MONITOR OPERATIONS USING GPS TECHNOLOGY

The Global Positioning System (GPS) option can be added for collecting positional data and determining the areas treated. These data may be exported for analysis using ArcGIS or compatible software.

#### BE USED AS A LOG BOOK

MultiDAT has a very user-friendly interface that allows operators to identify themselves and quickly enter codes that describe the work in progress or the cause of machine downtime. These codes can be customized for each machine.

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## The other MultiDAT family members

### MultiDAT JR

Offers all the features of MultiDAT, except for the user interface.



### DATA SHUTTLE

Certain personal digital assistants (PDAs) or more rugged field computers may be used to download MultiDAT data.

### MultiPAD DISPLAY

This display can be connected to MultiDAT and provide the operator with immediate feedback on productivity. Since the information displayed depends on operator codes, it cannot be used with MultiDAT Jr.



### MultiDL SOFTWARE

This software makes it possible to download MultiDAT data using short-range radio waves or cellular or satellite phone. It can be configured to collect data on a daily basis from an entire fleet of machines without any human assistance. Its use requires the purchase of short-range, cellular or satellite modems depending on the case.



### MultiDAT SOFTWARE FOR PC

This software makes it possible to have a detailed look at equipment operations and to design and produce customized reports and charts. Reports can also be exported in Excel format.



## Technical specifications

- Data storage: 70,000 events (approx.)
- Autonomy: 1 to 4 weeks (approx.)
- Memory protected by battery for 5 years
- Internal motion sensor
- User interface with backlighting (not available on MultiDAT Jr)
- 4 input channels: signals ranging from 5 to 30 V, configurable as timers, counters or frequency meters
- Recording precision: 1 minute
- Operating voltage: 9 to 30 V
- Operating current: 850 mA max.
- Operating temperature: -40 to +85°C
- Size: 23 x 13 x 6 cm
- RS-232 interface connector
- Optional GPS receivers:
  - Standard GPS receiver
  - High-precision GPS receiver

MultiDAT is guaranteed against all manufacturing or material defects for 12



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