▶ Safety and legal initiatives for homeland security

▶ Return on investment is obtained through enhanced risk management analysis, safer operater habits, and effective maintenance scheduling

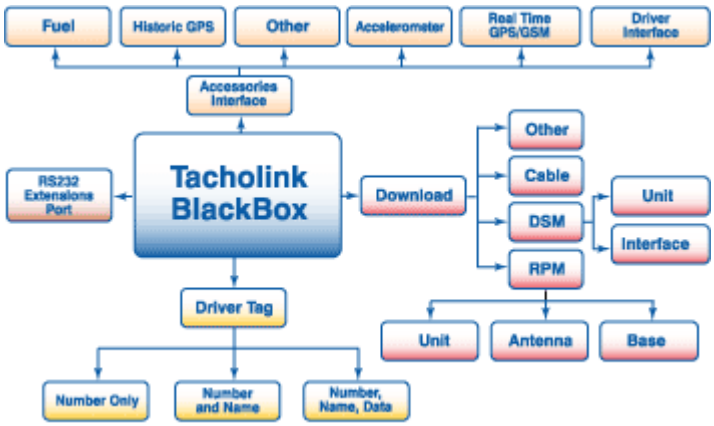
▶ Risk management solution to reduce liability costs, workman's compensation claims and fraudulent suits.

○ Risk Management ○ Driver Performance ○ Vehicle Activity

EDR *event data recorder*

Skyrocketing liability costs, poor operator performance, burdensome safety and security demands and constant maintenance headaches all add up to ever increasing cost burdens for Fleet Operators. Is there a way to get things back under control? Yes - but in order to do so, Risk Management needs objective analysis, Operations needs real backup documentation, Safety needs actual data and Maintenance needs timeliness. The TACHOLINK Vehicle Data Recorder provides the data. The use of this information will result in significant savings for the Fleet Operator.

Tacholink Vehicle Data Recorder. The "Black Box" with a difference!



The TACHOLINK provides legally valid data to establish the true cause of and responsibility for an accident, an objective analysis of its severity, and the *real* personal injury potential. By recording the operator's actions and the actual operating condition of all vehicle systems at the time, liability and litigation decisions can now be made on fact not on fear. Fraudulent and exaggerated claims and settlements for Bodily Injury, Property Damage and Worker's Compensation are all dramatically reduced.

Operator habits and practices improve significantly knowing the recorder is on board. Studies have shown a dramatic long-term reduction in the number of accidents as well as liability claims. Incidents and costs have been reduced by as much as 25% to 30%. Driving behavior is improved and damage to the vehicle is reduced, resulting in fewer breakdowns, lower maintenance costs and increased rider satisfaction.

Maintenance departments benefit greatly from more accurate and timely notification of potential operating problems on the vehicle. Engine, transmission and ABS braking systems faults are monitored in real time. Foundation braking system problems such as "hung brakes", improper stroke adjustment, non-operating air chambers and improper slack adjuster operation are identified. Transient vehicle faults, normally difficult to diagnose, can be identified and analyzed far more easily. The cost savings resulting from more available diagnostic information, fewer roadside breakdowns and longer intervals between inspections only add to the many benefits of the TACHOLINK Vehicle Data

Circuitlink International

Getting the most from your capital assets

Worldwide electronic vehicle measurements equipment device manufacturer for over 15 years.

Unlike other "Black Boxes", The Tacholink is a continuous, high-speed recorder similar to Data Recorders found on all Commercial Aircraft, Rail and Marine equipment.

In normal operation, all vehicle and driver activity can be logged as often as once per second. All deviations from user-defined limits are automatically recorded as "exceptions". On-board memory provides for permanent storage of all data for a period of up to six weeks. The data can be downloaded either automatically or manually.

At the same time, high-speed dynamic vehicle data is continuously being recorded for temporary storage in the Tacholink.

In the event of an "incident" triggered by user-defined rapid acceleration or deceleration levels or other exceptions, this high-speed data is instantly captured for permanent storage in non-volatile "tamperproof" memory. This information provides a complete picture of the event; and it's cause, by capturing all relevant data; for thirty (30) seconds *before* and fifteen (15) seconds *after* the actual incident.

All software for data capture, analysis and display is industry-standard Microsoft Windows. Data is stored in Microsoft Access format for ease of analysis.

The Tacholink is designed to be in compliance with all emerging regulations and standards for Commercial Vehicle Event Data Recorders.

TACHOLINK "the black box with a difference"

Now we have a solution everyone can live with. Get repeatable, reliable electronic readings for operations, risk management, and maintenance departments.

Being able to accurately validate our driver habits has decreased road calls and workman's compensation claims.

FRANK SCHULTS

Tacholink™ Monitors:

VEHICLE ACTIVITY

- *Accident Reports & Analysis*
- *Passenger Comfort*
- *Start/Stop Time*
- *Idling/Shutdown Time & Location*
- *Route/Call Analysis*
- *Mechanical/Electrical Status*

DRIVER PERFORMANCE

- *Excessive Speed*
- *Heavy Braking*
- *Fast Acceleration*
- *Fast Cornering*
- *Careless Driving*
- *Signal/Light Usage*
- *Seat Belt Usage*

Options:

RF Modem Data Download:
The RF Modem provides the ability to automatically download any "exceptions", or other data, desired.

Driver Alert Trigger:
The Manual Driver Alert Trigger is designed to provide the operator with a tool to initiate the "high speed data capture mode

Global Positioning (GPS):
The GPS system provides a cost-effective tool to continuously record vehicle position and time

Discrete Sensor Inputs:
In the event a vehicle does not have CAN (J1939) capability, or if some desired inputs are not available, the TACHOLINK provides eight (8) discrete digital sensor inputs and three (3) digital outputs which can be connected to the unit.

CAN Bus (J1939):
The CAN Bus (J1939), an industry-standard communications backbone, is implemented on most commercial vehicles for ECM modules and multiplexing.

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