DriveRight*



Davis

Safety, Savings, and Simplicity

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DriveRight 600

What Will Your Vehicles Tell You?

Vehicles, whether heavy duty trucks or company passenger cars, are always valuable assets. They represent not only a financial investment but also an investment in the safety and efficiency of your drivers.

As a fleet manager or business owner, you must know how and when your vehicles are being driven. You must anticipate maintenance needs and driver

training issues.

You must be able to assess the causes of an accident or "near miss."

You must, essentially, be able to com-

municate with your vehicles. But how does a vehicle tell you when a driver is irresponsible? How does it describe impending repair or maintenance needs? How does it let you know where it's been since it left your garage? How can it tell you just what happened in the event of an accident?

DriveRight and CarChip, using advanced micro-processor technology, can provide the answers to those questions and more. Both systems monitor trip distance, date and time, speed and braking, and both provide an accident log in the event of a sudden deceleration.

Which system is right for the vehicles in your fleet?

DriveRight 600 not only records and monitors how and when vehicles are used, but also by whom. It includes a console with

interactive LCD display that rides along, mounted on the dashboard or visor, in view of the driver. It allows speed, acceleration, and deceleration limits to be set and will show you how often those limits are exceeded. It will even provide an alarm to alert drivers whenever they

exceed a limit.

The DriveRight
600 allows you
to review every
trip—from high
speed to trip
distance. In
the event of
an accident

or sudden decel-

eration, the DriveRight 600 will provide a vital, second-by-second report of the 20 seconds before and the 20 seconds after a sudden deceleration. DriveRight's security system protects data from power failure and tampering. Data is never lost—even if wires are cut and batteries are removed.

CarChip Fleet is a tiny and inexpensive data logger that simply plugs into the OBDII port (required on all 1996 and later vehicles sold in the U.S.). In addition to speed and braking information, CarChip Fleet also provides information on engine trouble codes, RPM, and many other engine parameters. The data from CarChip Fleet is easy to download to your PC for use with the DriveRight Fleet Management software. CarChip Fleet's accident log includes the critical last 20 seconds of speed.

DriveRight and CarChip give your vehicle a voice. What will your vehicles tell you?

Enhance Driver Safety & Efficiency

The DriveRight Console: Your On-Board Coach

DriveRight's LCD console rides along, in plain view of the driver, allowing him to monitor himself. The on-board console, with its large LCD display and audible alarms, allows the driver to see his own progress. With instant feedback, drivers are coached to drive safely every minute they are behind the wheel of one of your vehicles.

In addition to visual feedback
from the console, DriveRight
provides audible alarms when a driver has exceeded a
company-mandated limit. The alarm is an effective governing device that does not prevent drivers from exceed-

ing limits as part of defensive driving techniques.

Drivers who are aware of their driving tendencies and of their surroundings are more cost efficient. Alert drivers reduce wear and tear through safer braking patterns and conservative actions. By discouraging speeding and rapid acceleration, vehicles become more fuel efficient.

DriveRight provides automatic record keeping that frees your drivers to concentrate on safe and efficient driving, instead of entering data or creating mileage reports.

DriveRight Fleet Management Software: Provides Simple Data Stream

DriveRight's Fleet Management Software provides managers with the information they need to control costs. This powerful software generates the reports managers need simply, quickly, and effectively. Most reports present data in executive summary form that is readable and concise.



Small enough to fit in a driver's pocket, the DriveRight console can stay with driver or remain in vehicle for data transfer via a Palm or modem.

- Safety Score reporting provides evaluation of driver's performance and coaches driver to improve safety.
- Lowers risk of work-related accidents and citations.
- Lets you set safe limits for consistent application throughout fleet.
- Provides "ride along" oversight with audible alarms.
- Business and personal miles can be measured separately.

DriveRight® 600

DriveRight 600: The Most Advanced System Yet

Davisi

DriveRight 600, our latest and most exciting system, was developed to incorporate or improve features identified by fleet managers including GPS capability, tracking the status of two digital inputs, enough memory for 600 trips and ten enhanced "accident logs," and an improved tamper log. This small box will empower managers to achieve their safety and efficien-

cy goals and to ensure the longevity of their vehicular assets.

The DriveRight 600 includes

new features designed specifically for vehicle/fleet managers. For example, a single DriveRight 600 may be used to monitor multiple drivers using a four-digit Driver ID. Or, use the four-digit ID to track destinations. New security features ensure that the data is protected—even if power is interrupted. A password prevents unauthorized changes to data or limits and a tamper indicator appears if someone disconnects the display or if an unauthorized person attempts to change



data or limits. Managers can also choose to use the DriveRight 600's digital inputs to monitor brake lights (for added accident log detail), seatbelt light, "power take off" (PTO) switch, or headlights.

With an optional GPS module, the DriveRight 600 keeps track of where your

vehicle has been,
recording coordinates at an interval
determined by the
manager. At the
default setting
of one-minute
intervals,
it can log
40 hours of

continuous driving. Data recorded for each interval include latitude and longitude, time and date, GPS speed and heading, high speed during the interval as recorded by the DriveRight, as well as data from the two digital inputs (for example, brake lights and seatbelt light). A map of the trip, generated by a program such as Microsoft MapPoint, with speed for every interval along the way, provides the missing piece for a true assessment of driver safety and efficiency for specific roadways.

Another area of great interest to managers is the accident log. When an accident or near-miss (identified by sudden deceleration) occurs, the DriveRight 600 automatically creates an accident log that will enable the manager to assess responsibility and to correct dangerous driving behavior for future trips. Each accident log shows the vehicle's

Easy-to-read console rides along on every trip.

DriveRight 600

speed during the 20 seconds prior to a sudden deceleration as well as the next 20 seconds after the event. Setting one of

DriveRight® 600

DriveRight's two digital inputs to monitor brake lights enables the accident log to include the exact points during the event the brake lights came on. If used with the GPS module, the accident log will also



Safety at any speed, even on a forklift.

show the vehicle's location.

There is a DriveRight 600 version right for almost any vehicle in your fleet. Most vehicles made in 1994 or later are equipped with a Vehicle Speed Sensor (VSS). DriveRight 600 VSS and DriveRight 600 VF (for Ford F-250 and F-350 trucks made in 2000 or later) tap directly into the VSS. VSS Input is generally faster to install and better shielded from environmental stresses. For vehicles that are not equipped with VSS, choose the driveshaft-mounted reed switch versions: the DriveRight 600 General Duty (for passenger cars) or Heavy Duty (for trucks and busses).

The DriveRight 600 reflects the real needs of real fleet managers. While you can't go along on every trip, your DriveRight 600 can!



DriveRight 600 VSS.

8156GD DriveRight 600, General Duty	\$375
8156HD DriveRight 600, Heavy Duty	\$395
8156VSS DriveRight 600, VSS	\$375
8156VF DriveRight 600, VF	\$375

Current Readings

- Speed (in km/h or MPH); max speed
- Acceleration and deceleration
- Distance traveled
- Odometer
- . Trip start and end times

Trip Information

- Track, store and display 600 trips
- Select trip type: Business, Personal, Commute, Other
- Average and high trip speed
- Time over speed limit
- Number of times speed and deceleration limits were exceeded

Plus

- Alarms for speed, acceleration and deceleration
- Password protection for data and settings
- Tamper indicator
- No loss of data with power interruption
- Supports two digital inputs to record brake lights, headlights, PTO, or seatbelt use

GPS Module Adds Important Details to Vehicle Record

Adding an optional GPS module to your DriveRight 600 brings even more driving details into focus. It regularly reports location and heading, synchronizing its data with speed and other safety information collected by the main unit

With GPS on board, the DriveRight 600 console displays the current GPS position and heading on the latitude and

longitude screens, so your driver can pinpoint his exact. location at any time. A driver who takes a wrong

Davisi 1499 580 DriveRight 600

turn or finds himself in unfamiliar territory can use this information to get back on the right route fast.

After the trip, you can use the downloaded GPS data with a mapping program to provide even more trip details. DriveRight's Fleet Management Software makes it simple to export the data to such popular programs as MapPoint® or Streets and Trips® (both available from Microsoft) to create a map of the route taken, as well as the location of each trip ending.

Since the DriveRight with GPS Module captures speed and location data simultaneously, you are able to plot the trail of high speed samples, and quickly judge whether or not the driver was driving appropriately for a particular roadway.

The GPS Module, which can be added to your DriveRight 600 at any time, can be customized to sample the vehicle's loca-

tion as often as every five seconds, or up to once every ten minutes for maximum storage time. At a one-minute interval, the DriveRight 600 with GPS Module will log 44 hours of location data. Each sample point will include the status of the digital inputs, as well as the vehicle's speed and

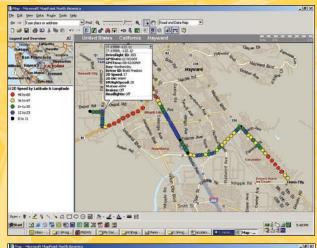
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heading at that moment. Perhaps one of the most important benefits of the GPS module is its ability to enhance safety reporting.

Without GPS, DriveRight 600 provides an accident log that tells you the vehicle's speed during the 20 seconds prior to and the 20 seconds after a hardbraking event. This is very valuable information in itself, but the GPS module adds much more information to the accident report by including the exact location of the incident, even in the case of a "near miss" hard-braking event. It also connects the status of DriveRight's selected digital inputs to the vehicle's location, allowing the manager to see when and where the brake lights came on.

Adding the GPS Module is simple. Just plug one cable into the DriveRight console and tuck the GPS Module under the dash. You can even move it from one vehicle to another. This allows you to rotate several modules throughout your fleet as needed.

Together, the DriveRight 600 and GPS Module create a formidable monitoring team.





Maps generated with Microsoft MapPoint (not included). Actual screens will vary.



8157 GPS Module for DriveRight 600\$295

Customizable GPS Module:

 Sample vehicle location as often as every 5 seconds or up to once every 10 minutes for maximum storage time.

Logs Hours of Location Data

- At a one-minute interval, log 44 hours of location data.
- Each interval point includes status of digital inputs, as well as speed and direction.

GPS Report (Using Microsoft MapPoint)

- Trip reporting shows trip route and stop locations.
- Location accuracy as close as 30 feet.

GPS Enhances Safety Management

- Assess the severity of an incident based on the vehicle's location.
- Use maps to help determine driver safety for specific roadways.

CarChip™ Fleet

A Simple and Inexpensive Option for Fleet Management

What if you could read your car's mind—simply and inexpensively? With CarChip Fleet, a tiny data logger that plugs into the vehicle's On Board Diagnostics (OBDII)

or later vehicles sold in the U.S.) knowing what is going on behind the wheel and under the hood is as simple as "plugand-go."

CarChip offers

fleet managers even more flexibility in their fleet management program. For vehicles that do not require the features of DriveRight 600, CarChip is an easy-to-use, inconspicuous, and inexpensive means of monitoring driver and engine performance. One CarChip Fleet can be switched between several vehicles or used as needed for particular trips or drivers. Since DriveRight Fleet Management Software supports both DriveRight 600 and CarChip Fleet (with special features for CarChip), managers can use either option to outfit specific portions of their

CarChip Fleet begins storing data as soon as it is plugged in to the OBDII port, which will be found within a few feet of the driver's seat. It records trip time and date, speed, distance, accelerations, and decelerations, for up to 300 hours of driving. It also monitors many selectable engine parameters including RPM. In the event of an accident,

vehicle fleet.

CarChip records the last critical 20 seconds of speed.

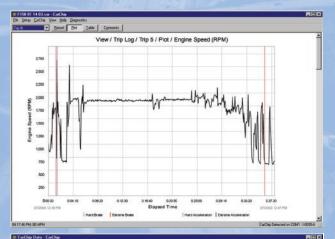
Drivers simply unplug the CarChip to download the data to the Fleet Management Software (sold separately), which organizes, stores, analyzes and even emails summary reports to the fleet manager. (One software package can be used to download and track all your fleet's CarChips.) If your vehicle's "check engine" light should come on, CarChip Fleet's additional diagnostic software will provide the diagnostic trouble code, as well a "freeze frame" reading the status of the various engine parameters. CarChip even allows you to turn the "check engine" light off.

Like DriveRight 600, CarChip Fleet offers a visible incentive for drivers to focus on safe driving techniques, and gives managers the ability to assess and reward their efforts. Its ease of use and additional engine performance data make it a valuable addition to your fleet management program.

8240 CarChip Fleet \$199



CarChip™ Fleet



le Setup CelCrip Verri Holo Gegrootics					
View / Vehicle Trouble Log / Problem 1					
Overview 3/17/2003 12:49 PM Vehicle Ford F-150 CarChip H-0004-A Trouble Code P0467 Description EVAP Purge Flow Sensor Circuit Low Input Comments					
Engine Status Fuel Pressure (Oage) Intake Manifold Pressure (Absolute) Engine Coolant Temperature 197.6 °F Calculated Coad Value 51.4 % Engine Speed 6. RPM Vehicle Speed 37 MPH					
Fuel Trim Status Shoh-Term Fuel Trim (Bank 1)					
Fuel System Status Fuel System 1 Status					

Fleet Management Software supports CarChip Fleet with additional diagnostic reports. Actual screens will vary.





Easy Plug-and-Go Installation

- Locate your car's OBD II connector.
 You'll find it within 3 feet of the driver's seat.
- 2. Plug in CarChip.

 The blinking light tells you it's installed and ready.
- Start driving. CarChip starts logging data immediately.

CarChip Fleet: Simple & Effective

- Tiny data logger is inconspicuous while in use
- One CarChip can be swapped between several vehicles
- Records speed every 5 seconds

Engine Diagnostics

- Provides diagnostic codes for "check engine" light
- Provides a "snap shot" of engine parameters when trouble light occurs
- Allows user to reset "check engine" light
- Monitors any 4 selectable engine parameters including RPM and throttle position

Accident Log

 Records critical last 20 seconds of speed

For 1996 and later model-year vehicles. Exclusions: The following 2003 model year vehicles use the CAN protocol which will be added later this year. Check our website, www.davisnet.com for the latest updates. Ford: 6.0L A/T F250 & F350 Diesel, 6.0L A/T Excursion Diesel, 3.0L & 3.9L A/T Lincoln LS, 3.9L Thunderbird, 2.3L A/T & M/T Focus; GM: Saturn Ion; Mazda: 2.3L & 3.0L Mazda 6; Saab: 9-3 Sedan 2.0L in 175 & 210 hp.

Fleet Management Software

The Information You **Need at a Glance**

- Track and compare drivers and vehicles by fleet, group, or location.
- · View, print, and save accident logs.
- Multiple password levels and tamper logs provide extra security.
- Sort data and create reports according to selected criteria.
- Summarize data by day, week, or longer date ranges.

Thoughtful Reports, Flexible Connectivity

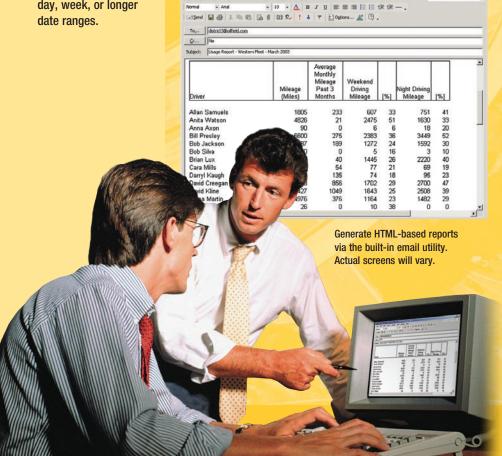
DriveRight's Fleet Management Software allows your computer to work where the rubber meets the road—without it ever going along for a ride!

The trends and events captured by DriveRight and CarChip give the manager what he needs to make informed decisions. DriveRight's Fleet Management Software's strong reporting and an intuitive interface will deliver the information needed in a timely and understandable manner.

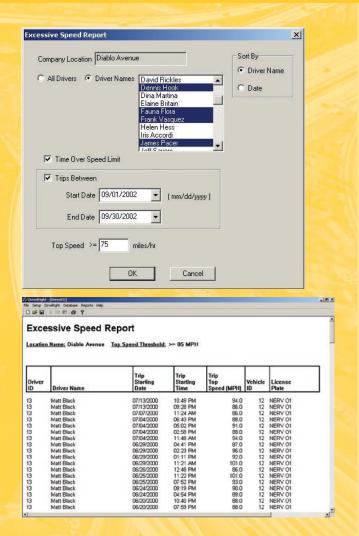
The Fleet Management Software has been redesigned with the guiding principle that a fleet manager's time is precious. Reports are thoughtful and summarized to give the manager the information needed at a glance. More detailed reports, such as exception reports, allow for customized tracking of vehicle use and specific driver behavior.

_IDIX

A powerful new Open Database Connectivity



Fleet Management Software



(ODBC)-compliant design lets users decide upon the preferred database platform, including Microsoft Access, MySQL, Oracle 9i and others. Intelligent archiving allows the manager to keep the relevant data active while keeping the past safely stored.

The software is also flexible in how it acquires and shares data. In addition to support for remote or Palm downloading, it can shuttle data via FTP, and it is equally comfortable on a single computer or a network server. Even more useful is its ability to generate HTML-based reports via the built-in email utility or for posting on any web server.

8186 Fleet Management Software.....\$395

Supports Flexible Database Solutions

- MySQL
- Oracle 9i
- Microsoft Access
- Microsoft MSDE
- Microsoft SQL Server

Speed & Hard Braking Exception Report

- Identifies driver, vehicle, speed, date and time of exception
- Displays customized exception speed threshold or deceleration count.



See more powerful report examples on page 12

Fleet Management Software

Driver Performance Score

- Driver safety factors combined into one score and a concise summary.
- Software can filter and report on specific parameters.
- Compare score progress with historical data.

Customizable Usage Report

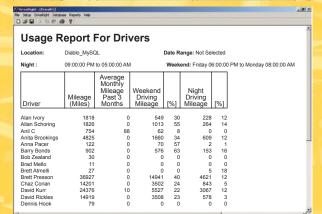
- Mileage
- Average monthly mileage
- Night driving hours
- Weekend use
- More

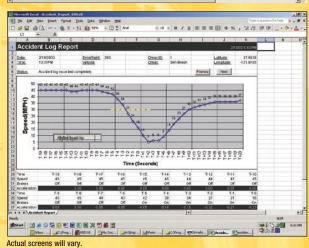
Accident Log

- Records 20 seconds (CarChip) or 40 seconds (DriveRight 600) of speed data.
- In case of an actual accident, data can be stored, printed, graphed and emailed quickly.
- With GPS, location of accident is recorded.

Powerful Reports for Information at a Glance

	A	B	C	D	E	F	G	H		J	K	L
		-4			Driver	Perform	ance R	eport				
	Location;	Oifield 20	5	Current S	icore:	1/27/2003	to	2/27/2003			1	end Emai
ij										Driver Sco	ne Compor	erts
	Drivers	Current Score	Max. Download days	Total Distance Driven (Miles)	Accel Counts per 100 Miles	Decel Counts per 100 Miles	Maximum Speed (MPH)	% of Driving Time over Threshold	Accel	Decel	Download	Speed
8	Light Vehicle Drivers											
	Fred Featherston	97	45	0.6	. 0		34		100	100	70	100
ì	David Creegan	97	41	10.E	0	0			100	100	70	100
g	Jim Parks	95			0				100	100	- 70	94
	Russ Hilbert	90	16	891.7	0.3				98	89	100	62
	Othello Preston	90	5	139.3	14	14			91	91	100	88
	Diana Martin	89			0.5	0.1			97	99	100	75
	Susan Fontaine	87			0.2	0.6			99	97	100	70
	David Creegan	86	24	256.9	0				100	100	100	84
	Kristi Everret	84			0				100	95	100	64
	Joyce Harbagh	83			0.3				98	95	70	70
	David Kine	82			0.2				99	97	100	58
	Brian Lux	37		285.3	1.1	26			93	84	100	57
	Bill Presley	75		946.4	13				92	41	100	60
	Faith Chadwick	89			43				74	53	70	76
	Tom Razor	69			1.3				92	92	100	29
	Bob Jackson	85			1.5				91	82	100	30
	Winston Church	29			0.0				95	85	70	-48
ы	* HI Famus Report 10mm	1 79		499.1	36	47	79	9	710	46	20	





Data Transmission Options

Quickly Move Information from Collection Point to Decision Point

Vehicle and driver information must be in the hands of fleet decision-makers, not out in the field or slowly downloading in some remote office. Data that is difficult to transfer or access is not much better than no data at all.

DriveRight 600 makes the process of transferring information straightforward, fast, and flexible.

For fleet vehicles that return to a central location, drivers simply bring the device to the office computer. The data can then be transferred to the database in less than one minute, allowing the driver to keep the unit for the next trip.

Some fleet managers may want to keep the unit with the vehicle. With the Palm Downloading Kit, data can be downloaded directly from the DriveRight on the vehicle's dashboard to a Palm Pilot via an interface cable.

Even the basic model Palms have enough memory to hold data for dozens of vehicles, allowing one person to quickly capture the entire fleet's information. The information can then be downloaded into the computer with one software menu selection.

Some fleets are spread out over large areas, and may include vehicles which do not return to a central location for months at a time. With the Remote Download Kit, a driver can connect a DriveRight directly to an external modem. When the modem dials into a computer running the Fleet Software in a special hosting mode, the data is transferred automatically.

8181 Palm Download Kit for DriveRight	\$95
8188 Remote Download Kit for DriveRight	\$95
These ontions not available for CarChin	

Palm Downloading Kit allows you to download information from all vehicles to a Palm Pilot, and then to the computer. (Palm serial connector required.)



Data Transfer Adapts to Your Needs:

- Drivers can return units to main office for quick downloading to computer.
- Units can remain in vehicle for download to one Palm, then from the Palm to computer.
- Data from vehicles out of the area can be transferred automatically via modem.
- Data is downloaded to computer quickly and simply.



Accessories

Warranty

We warrant our products to be free of defects in material and workmanship for one year from the date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective, or damaged.

If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option. either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, negligence, accident, or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state.

How to Reach Us

E-mail:

Product Questions: sales@davisnet.com Technical Questions: support@davisnet.com Comments/General: info@davisnet.com

Telephone:

Headquarters Phone: (510) 732-9229 Headquarters Fax: (510) 732-9188 Technical Support: (510) 732-7814

Website: www.davisnet.com

Extra Display Console

When several drivers share vehicles, give each driver his own display console which keeps all the driver's data in one place. Lithium battery included.

8178 Extra Display Console for DriveRight 600\$325

Tension Tool for Stainless Steel Tie

Tension Tool and Deluxe Tension Tool for use with DriveRight 600 Heavy Duty.

This device is a screwdriver-type tightening tool that allows the installer to tighten the stainless-steel heavy-duty strap. The deluxe tension tool is a ratcheting device and will provide extra efficiency for multiple installations.

8196 Tension Tool for Stainless Steel Tie......\$15 8195 Deluxe Tension Tool for Stainless Steel Tie.....\$245

Extra Installation Kits

The perfect solution to the problem of one DriveRight and multiple vehicles. The installation kit includes the manual and parts necessary to outfit a vehicle for a DriveRight console. The VSS kit delivers a speed reading by tapping the vehicle's existing Vehicle Speed Sensor signal. (Please check to ensure that the vehicle has a VSS signal, since not all models do.) Because there is no exposed sensor, this method works especially well for off-road vehicles. The General Duty kit can mount on any vehicle, and is sufficient for most cars and light duty vans and pickup trucks. The Heavy Duty kit contains upgraded mounting hardware and longer wires for harsher conditions. It can mount on any vehicle, and is designed to handle the needs of large trucks, busses and off-road vehicles. Note: Use of a tension tool is recommended during installation.

8160GD General Duty Installation Kit	\$75
8160HD Heavy Duty Installation Kit	\$95
8160VSS VSS Installation Kit	\$75
8160VF VSS Installation Kit,	
Ford F-250, 350 Version	\$75

Feature Comparison

	Feature Comparison	DriveRight 600	CarChip Fleet
	Start and end time	•	•
	Total time in motion	•	•
ے ا	Distance	•	•
Recorded Trip Information	Top speed	•	•
nai	Average speed	•	•
5	Time over set speed	•	•
I I	Number of hard accelerations	•	•
<u>ء</u> ِ	Number of hard decelerations	•	•
ΙĒ	RPM logged at regular intervals		•
	Selectable engine parameters monitored		•
5	GPS position logging at regular intervals (with optional GPS module)	•	
l S	Speed bands	• *	•
-	Idle time	• *	•
	Weekend/Night driving time	• *	•
	Toggle trip type for business or personal trips	•	
	Current Speed	•	
Display & Alarms	Current rate of acceleration or deceleration	•	
<u>a</u>	Driver ID entry	•	
₹	Audible & visible alarms for high speed, hard braking, hard acceleration	•	
≈ ≥	Code entry alarm for driver ID	•	
e	Digital input status	•	
) Sic	Current GPS position & heading (with optional GPS module)	•	
_	Time and date	•	
	40-second accident log	• *	
Safety	20-second accident log		•
Saf	End of trip deceleration records	• *	
0,	Added acceleration and deceleration thresholds		•
>	PIN code to keep settings from being adjusted	•	•
Security	Tamper indicator on console	•	
5	Tamper log	• *	•
Š	Vehicle login code restrictions	• *	
	Battery backup	•	•
(0	Odometer	•	•
Plus	Optional logging of additional engine parameters		•
-	OBD II trouble code reading		•
	"Check Engine" light reset		•
	-		

^{*} Available only when used with Fleet Management Software. (Note: Fleet Management Software required for CarChip Fleet; optional for DriveRight 600.)

Data Storage Capacity

DriveRight 600:

- 600 Trips, up to 435 hours of speed and GPS logging (with optional GPS Module)
- · Speed recorded as frequently as every second

CarChip Fleet:

- Up to 300 driving hours for speed, or up to 150 hours when four additional parameters monitored
- Speed recorded every 5 seconds
- Engine RPM and all other engine parameters recorded every 5 to 60 seconds (selectable)
- Engine throttle position (when available) recorded every 5 to 60 seconds (selectable)

Davis Instruments

3465 Diablo Ave, Hayward, CA 94545 (510) 732-9229 • www.davisnet.com





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SPEED

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