

In addition to weather stations, Davis Instruments also has a complete line of vehicle monitoring systems. First introduced in 1994, our DriveRight on-board consoles and Fleet Management Software are used by business and industry around the world. Now, with the introduction of CarChip, that same powerful data logging is available to you.

NEW! CarChip®

Don't wait for a speeding ticket—or worse—to find out how your teen is driving. CarChip plugs instantly into the OBDII (on-board diagnostics) port in your car or truck, where it continuously logs vehicle and driver performance. Download the data to your PC, and you'll get complete details for each trip plus details on engine performance when and if the vehicle's check engine light comes on. Stores up to 75 hours of driving data.

8211 CarChip \$139



Trip log includes:

- Time & Date
- Distance
- Average Speed
- Maximum Speed
- Hard Brakings
- Quick Accelerations

Speed is recorded every 5 seconds. Hard brakings are highlighted in red, quick accelerations in blue.

Trouble log shows diagnostic trouble code and description plus additional details on engine performance.

Accident log shows the speed for each of the last 20 seconds before coming to a complete stop. (E/X model only.)

Oxygen sensor voltage is just one of the 23 selectable engine parameters you can choose to monitor. (E/X model only.)

NEW! CarChipE/X®

By detecting malfunctions early and taking the guesswork out of diagnosing problems, CarChipE/X can help you keep your car in peak running condition. Log any 4 out of 23 possible engine parameters, each of which can affect operation, emissions, and fuel economy. Choose standard CarChipE/X or CarChipE/X with Alarm, with user-settable alarms for speed, hard braking, and quick acceleration. Stores up to 300 hours of driving data.

8221 CarChipE/X \$179

8225 CarChipE/X with Alarm \$199



Installation couldn't be easier.

- 1. Locate your car's OBDII connector.** You'll find it inside the car, no more than 3 feet from the driver's seat.
- 2. Plug the data logger in.** The blinking light tells you it's installed and ready to go.
- 3. Start driving.** CarChip will start collecting data your very next trip. Later, download to your PC for analysis, graphing, and charting.



CarChip Fleet

CarChip is also available in a fleet model with additional reporting capabilities specially designed for fleet managers. For more information, ask for our full-line DriveRight catalog.



CarChip	CarChipE/X	Software lets you:														
<p>Records 75 hours of trip details:</p> <ul style="list-style-type: none"> • Time and date for each trip. • Distance traveled. • Speed (logged every five seconds). • Idle time. • Hard accelerations and decelerations. • Engine diagnostic trouble codes plus the status of engine parameters at the time the codes occurred. • Time and date every time CarChip is connected or disconnected. 	<p>Records 300 hours of trip details:</p> <ul style="list-style-type: none"> • All the features of CarChip. • Up to 4 out of 23 possible engine parameters, recorded every 5 to 60 seconds. Choose from: <table border="0"> <tr> <td>RPM</td> <td>Battery voltage</td> </tr> <tr> <td>Throttle position</td> <td>Timing advance</td> </tr> <tr> <td>Engine load</td> <td>Coolant temperature</td> </tr> <tr> <td>Fuel pressure</td> <td>Air flow rate</td> </tr> <tr> <td>Fuel system status</td> <td>Intake air temperature</td> </tr> <tr> <td>Short-term fuel trim</td> <td>Intake manifold pressure</td> </tr> <tr> <td>Long-term fuel trim</td> <td>O₂ sensor output voltage</td> </tr> </table> 	RPM	Battery voltage	Throttle position	Timing advance	Engine load	Coolant temperature	Fuel pressure	Air flow rate	Fuel system status	Intake air temperature	Short-term fuel trim	Intake manifold pressure	Long-term fuel trim	O ₂ sensor output voltage	<ul style="list-style-type: none"> • Review and clear diagnostic trouble codes. • View summary and detail reports for each trip, including vehicle speed every 5 seconds. • Set thresholds for speed, acceleration, and braking, and view the number of times these thresholds were exceeded. • Copy data to spreadsheets and text documents for further analysis. <p>System requirements:</p> <ul style="list-style-type: none"> • Windows 98SE/2000/ME/XP and USB port.
RPM	Battery voltage															
Throttle position	Timing advance															
Engine load	Coolant temperature															
Fuel pressure	Air flow rate															
Fuel system status	Intake air temperature															
Short-term fuel trim	Intake manifold pressure															
Long-term fuel trim	O ₂ sensor output voltage															

For most cars and trucks sold in the USA and Canada, model-years 1996 or later. For a list of excluded vehicles, visit www.carchip.com. Vehicles sold outside the USA and Canada may or may not be compatible.