

# Dynetics Vehicle Data Recorder Models DVG-II and WDVG-II

Dynetics' latest vehicle data recorder (DVG-II) offers high-performance features required to support new vehicle electrical architectures and demanding applications for engineering, quality, and fleet testing. The data recorder supports high-speed continuous data logging from multiple vehicle network, analog, and digital I/O. This highly configurable recorder provides real-time performance and its powerful scripting language eliminates the need for embedded PC-based systems.

The data recorder can sustain streaming CAN communications for typical bus utilization to the 2 GB removable micro-SD card. A built-in 8 MB rolling buffer provides engineers the ability to capture all the data surrounding events for later analysis. The dual processor ARM7 architecture provides 1024 CAN hardware filters per processor, virtually eliminating complex filter management allowing users to capture thousands of signals.

## DVG-II Key Features

- ✦ Capture Thousands of CAN Signals and Diagnostic Parameters
- ✦ Over 10 kHz Continuous Logging
- ✦ 2 GB Micro-SD Memory Card Slot
- ✦ 8 MB Rolling Buffer
- ✦ 3 x HS CAN, 1 x LS CAN, ISO-9141, J1708
- ✦ 10 Analog Inputs, 1 Digital/Timer Counter Input, 2 PWM/Digital Outputs
- ✦ Synchronization of Dissimilar Signals: CAN, A/D, GPS
- ✦ Low Power Mode & Wake Up Support
- ✦ USB, Bluetooth, & RS-232 Serial Interfaces
- ✦ On-Board 3-Axis Accelerometer & Non-Volatile Real-Time Clock
- ✦ I/O Expansion Options (Daughter Cards, CAN, Serial, FlexRay)

The optional wireless configuration (WDVG-II) extends the data recorder's functionality by adding 802.11 b/g, EDGE/GSM, and GPS capabilities. The WDVG-II can upload data files to the Dynetics Vehicle Data Server, or customer-specific backend server applications, when connection is available. When no connection is present, WDVG-II stores data to the micro-SD card for later upload. The addition of wireless capabilities to the data recorder eliminates the need for manual data extraction and import to analysis applications, streamlining the data acquisition process.

## WDVG-II Key Features

- ✦ 802.11 b/g Data Upload Within Secure WiFi Networks
- ✦ Cellular Data Upload Over EDGE/GSM Networks
- ✦ Integrated 20-Channel GPS
- ✦ 4 Additional Analog Inputs



**Dynetics' high-speed data recorder provides real-time acquisition of vehicle network, diagnostic, and analog signals. Advanced configuration modes for triggers and rolling buffers support the most demanding applications.**

- ✦ Engineering and Captive Fleets
- ✦ Vehicle Proving Grounds Testing
- ✦ Warranty and Quality Improvement
- ✦ Vehicle Health Data Collection
- ✦ Research and Development
- ✦ Performance Testing

**For More Information Contact:**

**Dynetics Vehicle Information Technologies**

✉: [diagnostics@dynetics.com](mailto:diagnostics@dynetics.com)

☎: 256.713.5002  
888.500.8626

🌐: [www.dynetics-ia.com](http://www.dynetics-ia.com)

# Dynetics Vehicle Data Recorder

## Models DVG-II and WDVG-II



### Physical Specifications

Aluminum Housing (Dovetail Mounting Flanges Available)

DVG-II Size: 4-1/2" W x 4-1/2" L x 1-3/8" H

DVG-II Weight: 9.9 oz.

WDVG-II Size: 4-1/2" W x 4-1/2" L x 2-0" H

WDVG-II Weight: 15 oz.

### USB - Mini A/B

#### Vehicle Data Interface

15 Pin High-Density D-sub Male (HD15)

2 x High-Speed CAN

1 x Single Wire Low-Speed CAN

1 x SAE J1708

1 x ISO-9141

J1850-VPW (Optional)

#### Available I/O

26 Pin High Density D-sub Female

1 x HS CAN Channel

1 x RS-232

2 x PWM Outputs 12 VDC

2 x DAC Outputs 5 VDC

12 VDC Unregulated Output (200 mA Fused)

5 VDC Regulated Output (200 mA Fused)

10 x A/D Inputs (10 bit, 0-18 VDC, programmable)

♦ 4 with 50 Hz Butterworth Low Pass Active Filters

♦ 6 with Ferrites to Isolate High Frequency Noise

4 Additional A/D Inputs (w/WDVG-II)

♦ 16 bit, Differential, Programmable

2 x Switched Inputs

1 x Digital Timer / Counter Input

#### Memory - Micro-SD Card Slot

2 GB Capacity, PC Compatible FAT File System

#### Shutdown Push Button

#### Power & Status LED

### Environmental Specifications

#### Power Supply

Input Voltage: 7-18 VDC

DVG-II Input Current: Active 220 mA (No Load on Outputs)

DVG-II Sleep Mode: 9.6 mA

#### Temperature

Operating: -25 to 85 Degrees Celsius (-40 to +85 Available)

Storage: -40 to 85 Degrees Celsius

### Wireless Specifications

#### 802.11 B/G

Cisco CCX Compliant

Enterprise Class Security

♦ WPA-2 Enterprise, WPA2-PSK, WPA-PSK

♦ WEP, EAP

External WiFi Antenna

#### EDGE/GSM

Quad Band / Global

PTCRB Certified

#### GPS

20-Channel GPS

External GPS/GSM Antenna

#### Available Configurations

802.11 b/g, EDGE, GPS

802.11 b/g, GPS

EDGE, GPS

#### Connection Status LED

# Dynetics

#### HEADQUARTERS:

1002 Explorer Boulevard  
Huntsville, Alabama 35806

TEL: 256.964.4000  
FAX: 256.922.9260

An employee-owned company  
An equal opportunity employer