



# EOBD CODE READER - LIVE DATA

MODEL NO: VS8812.V2

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection

## 1. SAFETY

- ❑ **WARNING!** To prevent personal injury or damage to vehicles and/or the scan tool, read this instruction manual first and observe the following safety precautions.
- ✓ Always perform automotive testing in a safe environment.
- ✓ Wear safety eye protection.
- ✓ Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- ✓ Operate the vehicle in a well ventilated work area. Exhaust gases are poisonous.
- ✓ Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- ✓ Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- ✓ Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- ✓ Keep a fire extinguisher suitable for petrol/chemical/electrical fires nearby.
- ✗ **DO NOT** connect or disconnect any test equipment while the ignition is on or the engine is running.

## 2. INTRODUCTION

Save time and money and take the guesswork out of your fault-finding and diagnosis. Allows interrogation of the vehicle's ECU to determine the performance of essential emission-based information, to read and clear Diagnostic Trouble Codes (DTCs) and to obtain vital performance data from the vehicle's engine and transmission (Petrol 2000 onwards and Diesel 2003 onwards).

## 3. SPECIFICATION

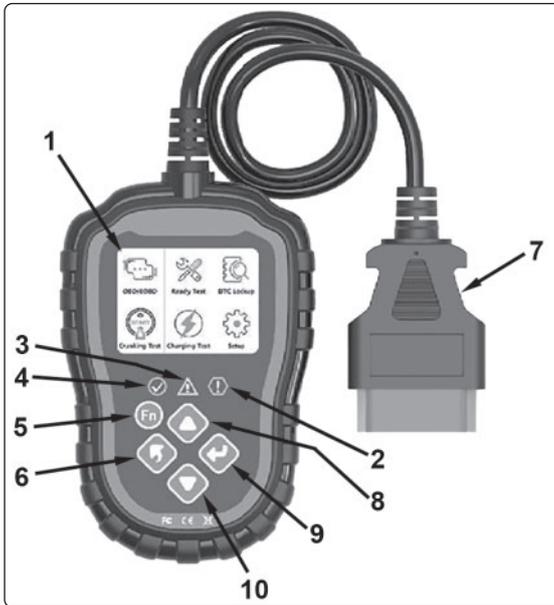
Model No: ..... VS8812.V2  
 Application(s): ..... All petrol 2000 on and diesel 2003 on  
 ..... OBDII/EOBD compliant vehicles  
 Function descriptions: .....Function applications  
 Works on all (petrol 2000 on and diesel 2003 on)  
 OBDII/EOBD compliant vehicles: ..... Yes  
 Scans for Diagnostic Trouble Codes (DTC) -  
 The cause of the 'Engine and Transmission'  
 Malfunction Indicator Light' (MIL): ..... Yes  
 Scans for pending DTCs: ..... Yes  
 Retrieves generic (P0, P2, P3 & U10) and  
 Manufacturer specific (P1, P3 & U1) DTCs: ..... Yes  
 Turns off MIL light, clears DTCs and resets monitors: ..... Yes  
 Displays DTC definitions on screen: ..... Yes  
 View freeze-frame data: ..... Yes  
 Displays monitor and I/M readiness status (emissions):... Yes  
 Patented One-Click I/M readiness button (emissions):..... Yes  
 Retrieves vehicle information (VIN, CID & CVN): ..... Yes  
 Supports CAN and other current EOBD Protocols: ..... Yes  
 Supports the new extended sensor list  
 (SAE J1979 - 2007): ..... Yes  
 Reads live ECU/PCM data stream: ..... Yes  
 Displays live O2 sensor data: ..... Yes  
 Performs 'modules present' test: ..... Yes

## 4. USING THE SCAN TOOL

### 4.1. LOCATION OF THE DLC

- 4.1.1. The DLC (Data Link Connector or Diagnostic Link Connector) is the standardized 16-cavity connector where diagnostic scan tools interface with the vehicle's on-board computer. The DLC is usually located 300mm from the center of the instrument panel (dash), under or around the driver's side for most vehicles. If Data Link Connector is not located under dashboard, a label should be there telling the location. For some Asian and European vehicles, the DLC is located behind the ashtray and the ashtray must be removed to access the connector. If the DLC cannot be found, refer to the vehicle's service manual for the location.

### 4.2. TOOL DESCRIPTION



| Display Description |   |
|---------------------|---|
| 1                   | LCD Display   |
| 2                   | Red LED: indicates an engine problem. The Malfunctioning Indicator Light may be on (MIL)                  |
| 3                   | Yellow LED: indicates a possible problem. Some diagnostics could not be performed and/or a DTC is pending |
| 4                   | Green LED: indicates that engine systems are "OK" and operating normally                                  |
| 5                   | Fn key  |
| 6                   | Back or exit key  |
| 7                   | OBD II connector  |
| 8                   | Up key  |
| 9                   | Enter key   |
| 10                  | Down key  |

### 4.3. FUNCTION DESCRIPTION

- 4.3.1. Dual-system diagnostic fault detection, option of either engine or transmission selection.
- 4.3.2. Quick indication of engine faults. LED light fault indicators in GREEN / YELLOW / RED.
- 4.3.3. The option to read or clear engine fault codes: 16929 diagnostic fault code definitions can be tested.
- 4.3.4. Dynamic display of sensor data stream information, utilising 249 types of sensors.
- 4.3.5. View freeze frame data and I/M status information.
- 4.3.6. Read vehicle information:  
 Vehicle identification number (VIN)  
 Calibration identification number (IDs)  
 Calibration verification number (CVNs)
- 4.3.7. Diagnostic fault detection tests for the cranking and charging systems of the vehicle.
- 4.3.8. Multi-language option.

## 5. TOOL SETTINGS

### 5.1. SETUP

#### 5.1.1. Language:

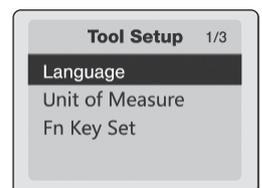
Selects desired language.  
 English is the factory default setting.  
 From language screen select language required.

#### 5.1.2. Unit of measure:

Selects desired measurement unit.  
 Metric is the factory default setting.  
 From measurement screen select measurement unit required (metric or imperial).

#### 5.1.3. Fn Key Set:

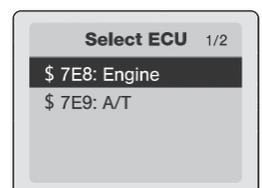
The Fn key can be set up as a one click quick test function, and can be used in the following modes:  
 Usual Datastream - All Datastream - I/M Readiness - Read Codes.



## 6. DIAGNOSTIC

### 6.1. DUAL-SYSTEM SELECTION

- 6.1.1. Start the car's engine and plug the OBD II connector into the vehicle's Date Link Connector (DLC).
- 6.1.2. Enter the reader's main interface, and click the ENTER key to start scanning the vehicle (DLC) system.
- 6.1.3. By default the reader will select the single engine system.
- 6.1.4. The dual system selection menu will display when detected.
- 6.1.5. Select the system to be diagnosed.
- (1) \$ 7E8: Engine ..... Engine system  
 (2) \$ 7E9: A/T ..... Transmission system



## 6.2. DIAGNOSTIC MENU

### 6.2.1. Read codes:

View the diagnostic trouble code (DTC) for the engine or transmission system and display their standard definitions.

### 6.2.2. Erase codes:

Clears all the DTC's in the system.

- ❑ **WARNING!** Take due consideration before actioning this command.

### 6.2.3. Data Stream:

This function allows viewing of live or real time data from all the supported sensors (up to 249 types of sensors).

### 6.2.4. Freeze frame:

Freeze Frame Data allows the technician to view the vehicle's operating parameters at the moment when an emission related fault occurs. These faults include, but not limited to fault code, vehicle speed, coolant temperature etc.

### 6.2.5. I/M Readiness:

I/M Readiness function is used to check the operation of the Emission System on EOBD compliant vehicles.

Some later vehicle models may support two types of I/M Readiness tests:

A. Since DTCs Cleared - indicates status of the monitors since the DTCs were erased.

B. This Drive Cycle - indicates status of monitors since the beginning of the current drive cycle.

"OK" - Indicates completed diagnostic testing.

"INC" - Indicates that the diagnostic testing has not been completed.

"N/A" - The monitor is not supported on that vehicle.

### 6.2.6. Vehicle information:

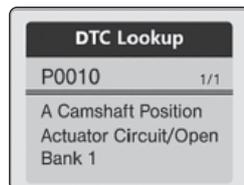
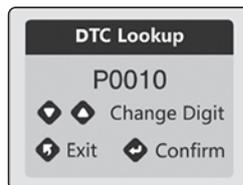
Review vehicle identification number (VIN)

Calibration identification number (IDs)

Calibration verification number (CVNs)

## 7. DTC LOOKUP

- 7.1. The reader has 16929 pre-set DTC identification codes in its database. To view the DTC, input the code and press enter. The fault code definition will then be displayed providing additional information on where the DTC originated and the operating conditions that caused it to set.



## 8. CRANKING SYSTEM TEST

- 8.1. On the reader's menu screen select "Cranking Test" and press ENTER to start the test.

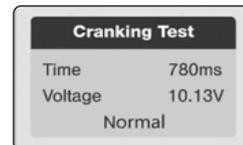
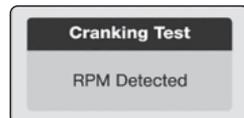
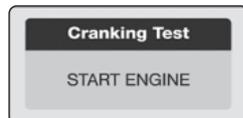
8.1.1. Start the engine when prompted. The reader will then automatically complete the cranking test and display the test result.

8.1.2. When the reader detects the RPM this will then be indicated on the reader's screen.

**NOTE:** The cranking voltage display value should be at least 9.6V.

8.1.3. On completion of the cranking test the reader will display the cranking voltage obtained and duration.

8.1.4. The cranking test reader display results allows the technician to quickly determine the overall condition of the cranking system.



## 9. CHARGING SYSTEM TEST

- 9.1.1. On the reader's menu screen select "Charging Test" and press ENTER to start the test.

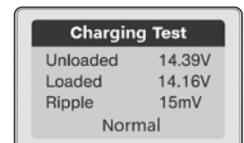
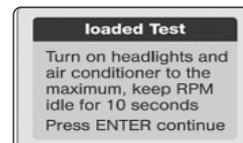
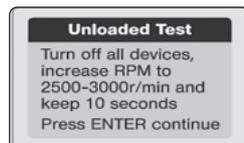
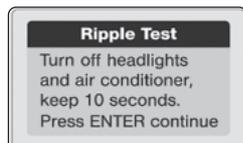
9.1.2. Follow each step shown on the readers screen instructions.

**NOTE: DO NOT** turn off the engine during the charging system test.

9.1.3. On completion of the charging system test, the reader will display the loaded and unloaded charging voltages, the ripple voltage and the charging test result.

**NOTE:** If the reader displays a "NO OUTPUT" message, the battery has become fully discharged.

Check if the alternator is functioning correctly or contact a service centre immediately.



## 10. MAINTENANCE

- 10.1. Keep the scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.



#### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



#### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR



01284 757500



01284 703534



sales@sealey.co.uk



www.sealey.co.uk