AUTOPHIX OM129

AUTOPHIX OM129 OBD2 Scanner Diagnostic Tool User Manual

Comprehensive guide for operating and maintaining your diagnostic tool.

PRODUCT OVERVIEW

The AUTOPHIX OM129 is an upgraded 3-in-1 OBD2 scanner designed for comprehensive vehicle diagnostics. It covers all basic and enhanced OBDII modes, and includes an accurate battery test function. Equipped with an advanced industrial chip, it offers high scanning speed and diagnostic accuracy. This tool allows users to read and clear codes, view live data, perform I/M readiness checks, and conduct various system tests.

Figure 1: The AUTOPHIX OM129 OBD2 Scanner, showcasing its main unit and the OBDII connection cable. The display shows various diagnostic options.

GETTING STARTED: SETUP

To begin using your AUTOPHIX OM129 scanner, follow these steps:

1. **Locate the OBDII Port:** The OBDII port is typically located under the dashboard on the driver's side of the vehicle. Refer to your vehicle's owner's manual if you cannot find it.

2. **Connect the Scanner:** Plug the OM129's OBDII cable connector firmly into the vehicle's OBDII port. The scanner will power on automatically once connected.

3. **Initial Boot-up:** The device will display the AUTOPHIX logo and then proceed to the main menu.

4. **Language Selection:** If prompted, select your preferred language from the available options. The device supports 16 languages including English, French, German, Spanish, and more.

Figure 2: The OM129 scanner displaying various language options, highlighting its wide vehicle coverage and multi-language support.

OPERATING INSTRUCTIONS

The OM129 offers a range of diagnostic functions accessible from the main menu. Use the navigation buttons (ENTER, EXIT, up/down/left/right arrows) to select and confirm options.

1. OBDII Functions

This section provides access to standard OBDII diagnostic modes.

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's Engine Control Unit (ECU). This includes current, pending, and permanent codes.
- **Clear Codes:** Erases DTCs from the ECU and turns off the Check Engine Light (MIL). Ensure the underlying issue is resolved before clearing codes.
- **Live Data Stream:** Displays real-time engine parameters in text and graphical formats. This includes values such as engine RPM, vehicle speed, coolant temperature, intake air temperature, and more.

- **Freeze Frame:** Captures a snapshot of sensor data at the moment a fault code was set, providing context for troubleshooting.
- **I/M Readiness:** Checks the status of emission-related monitors to determine if the vehicle is ready for an emissions test. A one-click I/M button is available for quick access.
- **O2 Sensor Test:** Monitors and tests the operation of oxygen sensors.
- **On-Board Monitor Test:** Retrieves test results for emission-related powertrain components and systems that are not continuously monitored.
- **EVAP System Test:** Initiates a leak test for the vehicle's Evaporative Emission Control (EVAP) system.
- **Component Test:** Allows for testing of specific vehicle components.
- **Vehicle Information:** Displays vehicle identification number (VIN), calibration ID, and calibration verification numbers.
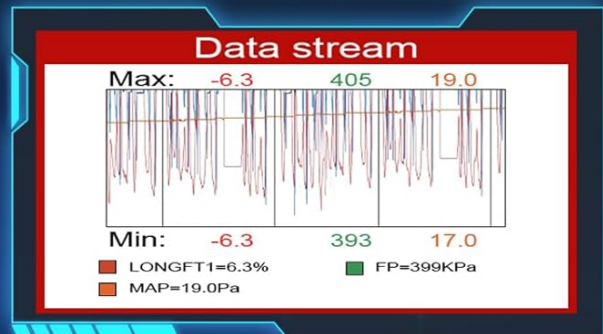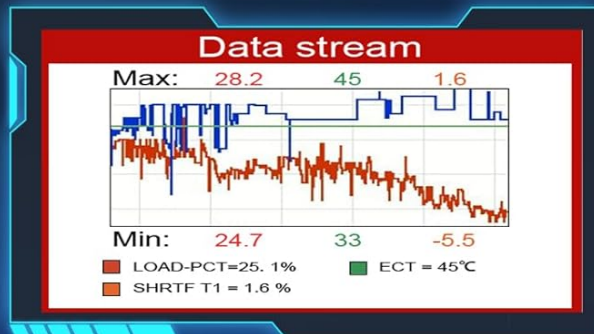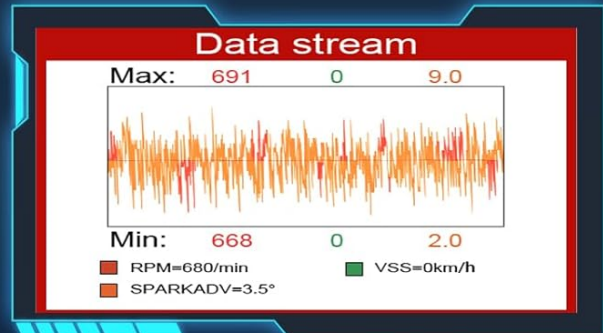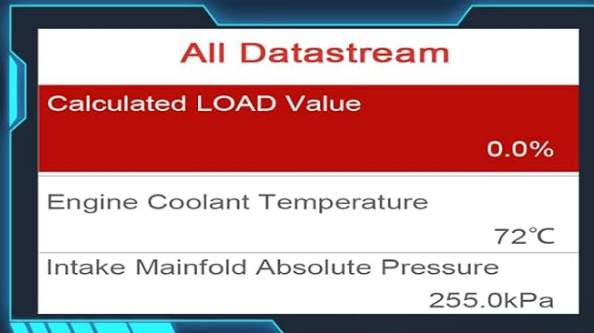

Figure 3: The OM129's diagnostic menu, showing options like Read Codes, Erase Codes, I/M Readiness, Data Stream, and more, indicating the comprehensive OBD2 functions.

Figure 4: Examples of live data stream display on the OM129, showing both text and graphical representations of engine parameters like Calculated Load Value and Engine Coolant Temperature.

2. Battery Test Function

The OM129 includes a dedicated battery test function to assess the health of your vehicle's 12V battery.

- **Real-time Voltage Display:** Shows the current battery voltage in both text and graphical formats.
- **Health Status Assessment:** Compares the real-time voltage to standard values to determine the battery's health status and expected remaining life.
- **Convenience:** This test can be performed without opening the vehicle's hood.

Figure 5: The OM129's battery test interface, showing real-time voltage graphing and a table indicating battery health based on voltage readings before and after starting the engine.

3. DTC Lookup

The built-in DTC library provides detailed definitions for over 370,000 fault codes.

- **"i" Button:** Press the dedicated "i" button for immediate access to detailed fault code explanations and accurate repair advice, eliminating the need to search online.

Figure 6: The OM129's DTC lookup feature, demonstrating how the "i" button provides detailed explanations for fault codes like P0540, including possible causes.

4. Data Record and Replay

The scanner allows you to record diagnostic data for later review or sharing.

- **Record Data:** Capture live data streams during vehicle operation.
- **Replay Data:** Review recorded data to analyze vehicle performance or diagnose intermittent issues.
- **Print Data:** Connect the scanner to a computer via USB (Windows 7/8/10 only) to print diagnostic reports.

Figure 7: The OM129 scanner connected to a computer and printer, illustrating its ability to print diagnostic data reports for detailed analysis or sharing.

MAINTENANCE

To ensure optimal performance and access to the latest vehicle data and features, it is recommended to keep your OM129 scanner's software updated.

- **Lifetime Free Updates:** The AUTOPHIX OM129 supports lifetime free software updates.
- **Update Procedure:** Connect the scanner to a computer via a USB cable. Software updates are compatible with Windows 7, 8, and 10 operating systems only. Refer to the official AUTOPHIX website for detailed update instructions and software downloads.
- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

This section addresses common issues you might encounter while using the OM129 scanner.

No Power/Device Not Turning On

- **Check Connection:** Ensure the OBDII cable is securely plugged into both the scanner and the vehicle's OBDII port.
- **Vehicle Ignition:** Make sure the vehicle's ignition is in the "ON" position (engine off or running, depending on the test).
- **Vehicle Battery:** Verify that the vehicle's battery has sufficient charge.

Communication Error

- **Verify Protocol:** Ensure your vehicle supports one of the standard OBDII protocols (CAN, J1850 PWM, J1850 VPW, ISO9141, KWP2000). The OM129 supports all these protocols.
- **Ignition Status:** Confirm the vehicle's ignition is on.
- **Vehicle Compatibility:** While the OM129 supports a wide range of vehicles (US based since 1996, EU based since 2000, Asian based since 2008), some older or specific models might have compatibility nuances.
- **Check for Blown Fuse:** A blown fuse in the vehicle's OBDII circuit can prevent communication.

Incorrect Readings or Data

- **Software Update:** Ensure the scanner's software is up to date.
- **Sensor Issues:** If specific data points seem incorrect, the corresponding vehicle sensor might be faulty.

Figure 8: The OM129's ability to read and clear fault codes, demonstrating how it can turn off the check engine light after a repair, providing repair advice.

SPECIFICATIONS

Feature	Detail
Model	OM129
Display	2.8" TFT 262K True Color LCD Screen
Operating Voltage	12 Volts
Dimensions	25.4 x 12.7 x 7.62 cm
Item Weight	480 g
Supported Protocols	CAN, J1850 PWM, J1850 VPW, ISO9141, KWP2000
DTC Library	Over 370,000 detailed definitions
Supported Languages	16 languages (English, French, German, Spanish, Dutch, Finnish, Italian, Portuguese (Portuguese), Portuguese (Brazil), Russian, Japanese, Polish, Czech, Danish, Norwegian, Swedish)
Software Update	Lifetime Free Update (Windows 7/8/10 ONLY)

WARRANTY AND SUPPORT

AUTOPHIX is committed to providing excellent customer service and product support.

- **Warranty:** The OM129 diagnostic scan tool comes with an 8-year warranty.
- **Returns:** Enjoy a 60-day free return period for refund or replacement.

- **Customer Service:** 24-hour after-sales service is available for assistance.
- **Lifetime Free Updates:** As mentioned, software updates are free for the lifetime of the product.

For any inquiries regarding vehicle compatibility or technical assistance, please contact AUTOPHIX customer support.

Figure 9: AUTOPHIX customer support representatives ready to assist with product inquiries and technical support.