

Scanmaster Elm V4 0 49

The screenshot displays the ScanMaster-ELM software interface. The main window is titled "Freeze Frame Data (Mode 02)". The interface includes a menu bar (File, Options, Tools, Help), a toolbar with various icons, and a navigation pane with buttons for "Monitored Test Results", "Actuator", "Live Data Grid", "Live Data Meter", "Live Data Graph", "PID Config", "Power", "Start", "Vehicle Info", "System Status", "Trouble Codes", "Freeze Frames", and "Oxygen Sensors".

The central area shows a table of freeze frame data for a P0278 error. The table has three columns: "Description", "Value", and "Units".

Description	Value	Units
▲ P0278 - Cylinder 6 Contribution/Balance		
03 - Fuel System Status		
Fuel System 1	reserved	-
Fuel System 2	Unknown Value	-
04 - Calculated Load Value	14	%
05 - Engine Coolant Temperature	70	癈
06 - Short Term Fuel Trim - Bank 1	-75.0	%
07 - Long Term Fuel Trim - Bank 1	-75.0	%
08 - Short Term Fuel Trim - Bank 2	-75.0	%
09 - Long Term Fuel Trim - Bank 2	-74.2	%
0A - Fuel Rail Pressure	111	kPa
0B - Intake Manifold Absolute Pressure	33	kPa
0C - Engine RPM	4540	rpm
0D - Vehicle Speed	37	km/h
0E - Ignition Timing Advance for #1 Cylinder	-48	?
0F - Intake Air Temperature	-6	癈
10 - Air Flow Rate	87.62	g/s
11 - Absolute Throttle Position	14.9	%
12 - Commanded Secondary Air Status	air reserved	-
13 - Location of Oxygen Sensors	B1S2 B2S2	-
14 - Bank 1 - Sensor 1		
Oxygen Sensor Output Voltage	0.170	V
Short Term Fuel Trim	70.3	%

At the bottom of the window, there is a "Read" button, a "Frame" field set to "0", and a "- OBD-II Mandated" label. The status bar at the very bottom shows "Port: COM4", "Interface: [green]", "ECU: [green]", and "VIN: R725".

DOWNLOAD: <https://tinurli.com/2it1ht>



It is worth noting that the ELM 327 interface functions as a modem between the computer and the car, allowing communication in order to download information about the car in real time or through software updates to the vehicle. The ELM 327 uses the Ethernet protocol on all interfaces. In this sense, the data exchange takes place through the WAN (Computer to Car) or LAN (Car to computer). This interface is compatible with all production networks, and the main advantages of the ELM 327 are: - High availability (more than 99.99%). - Excellent documentation, which is available online and in hard copy for free. - Non-constant interface speed (Megabit per second) to adapt to different speeds of the car. - Device synchronization to update the vehicle's configuration data. - Extremely robust device. - The Ethernet interface allows the connection of more than one ELM 327. - Integration into the original equipment of the car manufacturer. The ELM 327 supports the following protocols: - Transmission Control Protocol/Internet Protocol (TCP/IP), - File Transfer Protocol (FTP), - Hypertext Transfer Protocol (HTTP), - Secure Socket Layer (SSL). The ELM 327 is the best way to download data from the car, but the device cannot be used for transfer and, in many cases, the computer to which the device is connected does not provide suitable interfaces. ELM Reader {#sec:elm_reader} ----- The ELM Reader is a small, wireless device ([Figure \[fig:elm-reader-shipped\]]{ }) that allows the connection of any PC through its USB interface. It includes a small touchscreen (the actual interface), but it is much more interesting to connect the device to a Raspberry Pi [@raspberrypi-web-site] that has this interface (the Raspberry Pi is a great tool to control devices) and allows you to use the device as a wireless dongle. ![Device in the factory. The front of the device is a small screen with the interface.[] { data-label="fig:elm-reader-shipped"}](figures/elm_reader.png){width="0.6\linewidth"} 82157476af

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