

ST05 Oxygen Sensor Tester / simulator

This professional oxygen sensor tester incorporates sophisticated electronic technology to allow technicians to run response time tests on zirconium, titanium 1 Volt and titanium 5 Volt oxygen sensors, both heated or unheated (1 to 4 wires), showing a pass or fail result in a matter of seconds. The ST05 is equipped with a well-lit LED bar graph to allow quick visualization and easy interpretation of results during tests. The cross count result is prominently displayed in real time during tests. The rich/lean simulation mode forces voltage across the oxygen sensor to simulate lean or rich fuel conditions to monitor the response of the engine control module.



ST05 oxygen sensor tester simulator

» Simple to use Quick and simple to hook up:

- » It only requires connecting two probe clips to the oxygen sensor wires, and selecting the oxygen sensor type

» Fast testing and diagnosing of oxygen sensors:

- » The sensor signal output is shown in real time on the bar graph, while a 2 digit alphanumeric display shows the sensor output cross count per second
- » By pressing the 'Test' button and performing a snap throttle acceleration of the engine, the response time of the sensor is measured, and a pass or fail result is shown within seconds

» Simulate sensor outputs:

- » Two buttons allow for simulation of rich or lean conditions to monitor response of the engine control module

» Advanced connection detection:

- » The ST05 automatically detects common wire misconnections like ground, heater wires, disconnected test leads, reversed polarity, etc. and displays these on the alphanumeric display

» Other advantages:

- » Sensor can be tested on or off the vehicle
- » Does not require special setups or in depth knowledge to use

- » Provides instant readings and testing capabilities of the output of the sensor
- » Diagnoses "lazy" (slow response) sensors, which may not set DTCs, but cause drivability problems
- » Excellent preventive maintenance tool, to diagnose sensors that need to be replaced before they set DTCs or completely fail
- » Ruggedized electronics make it almost impossible to damage the instrument, even if wrongly connected
- » No software to upgrade

» Main Features:

- » 42 V Ready®: can also be used in new generation vehicles with mixed or single 42 Volt systems
- » Monitors and tests zirconia and titanium oxygen sensors in 1 and 5 Volt systems
- » Internally protected against power surges, overloads and reversed polarity connections
- » Bright and powerful vertical LED bar graph shows sensor signal for quick and easy interpretation
- » Crosses per second counter prominently displayed on 2 digit alphanumeric LED display
- » High temperature silicone 16 AWG test wires and rugged piercing clamps
- » Protective rubber holster

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»» Technical Specifications :

- »» Input Range: 0 to 5 Volt
- »» Input Protection: +/- 48 VDC Max, current limited
- »» Indicators: 20 Segment bar graph and 2 digits alphanumeric display
- »» Bargraph Scale: 0 to 1 Volt or 0 to 5 Volt
- »» Cross Count: 0.1 to 10 CPS
- »» Auto Detection: Detects reversed polarity, ground, heater and open connections
- »» Response test: <100 ms Pass +/- 5 ms
>100 ms Fail +/- 5 ms
- »» Test Leads: 2 wire piercing alligator clips with insulating boot, and 6.5 ft cables
- »» Power Source: Standard 9-volt alkaline battery. Duracell MN1604 (factory included)
- »» Battery Life: Approx. 25 hrs, with low battery indicator and auto power off



■ All inputs protected up to 48 VDC and against reversed polarity

»» ST05 Oxygen Sensor Tester Simulator Includes:

- »» ST05
- »» Two piercing clips with 6 ft. cables
- »» Protective rubber holster
- »» Polypropylene carrying case
- »» 1 x 9 Volt alkaline battery
- »» User's handbook

»» Applications:

- »» Test zirconia sensors
- »» Test titanium 1 Volt sensors
- »» Test titanium 5 Volt sensors
- »» Test 1 to 4 wires (heated/unheated) sensors
- »» Simulate rich and lean sensor output
- »» Test sensor response time



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