

Wide band A/F ratio

Zirconium

Titanium 1 and 5 V

Simple and flexible to use

- ▶ 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 driveability 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.

ST05 features

- ▶ 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, it tests the response time of the sensor and shows a pass or fail result within seconds.
- ▶ Two buttons allows 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.
- ▶ Only requires the connection of two probe clips to the oxygen sensor wires, and the selection of the oxygen sensor type.

ST05

Oxygen Sensor Tester and Simulator

Technical specifications

- ▶ **Display:**
 - ▶ 2 digit alphanumeric LED display.
 - ▶ 20 segment LED bargraph with 0 to 1 Volt or 0 to 5 Volt ranges.
- ▶ Cross count: 0.1 to 10 CPS.
- ▶ Response test: <100 ms Pass +/- 5 ms, >100 ms Fail +/- 5 ms.
- ▶ Test leads: 2 wire piercing alligator clips, and 6.5 ft cables.
- ▶ Power source: One standard 9 Volt alkaline battery type NEDA 1604 IEC 6F 22.
- ▶ Battery life: approximately 25 hrs., with low battery indicator and auto power off.
- ▶ Physical dimensions (including holster): 6" (H) x 4" (W)x 1.5" (D) (158 x 100 X 37 mm).
- ▶ Weight: approximately 14 Oz. or 406 gr. (including battery).

GTC

Electrical Specifications

- ▶ Input Range: 0 to 5 Volt.
- ▶ Input Protection: +/- 48 VDC maximum, current limited.
- ▶ Auto Detection: Detects open connection, reversed polarity, ground, heater and open connection.

Applications:

- ▶ Test zirconium sensors.
- ▶ Test titanium 1 Volt sensors.
- ▶ Test titanium 5 Volt sensors.
- ▶ Test wideband (air/fuel ratio) sensors.
- ▶ Test 1 to 4 wires sensors (heated and unheated).
- ▶ Simulate rich and lean sensor output.
- ▶ Test sensor response time.

ST05 includes:

- ▶ ST05.
- ▶ Two piercing clips with 6 ft. cables.
- ▶ Protective rubber holster.
- ▶ Polypropylene carrying case.
- ▶ 1 x 9 Volt alkaline battery.
- ▶ User's Manual.
- ▶ 1 year parts and labor warranty.



Other GTC products



TA110
Laser tachometer and counter



CT8002
Professional Cordless Computer-Safe Circuit Tester



FF310
FaultFinder Open and short circuit finder and tracer



LTX Series
From -20° up to 1400 °F Infrared thermometers with laser sight



CM Series
From 1 mA up to 1000 A AC/DC current clamp meters



CT Series
Automotive and industrial digital multimeters



TA Series
Smarttach - Tachometers and Engine Analyzers

ST05 Parts and Accessories

Part Number: **ST05CC**

Hard Case for Carrying and Storage

- **Included with ST05**
- Impact and chemical resistant polypropylene construction
- Foam padded interior
- Physical dimensions: 10" x 7.87" x 2.38"
(254 x 200 x 60.5 mm)



Part Number: **ST05HR**

Test Leads

- **Included with ST05**
- Replacement rubber holster
- Made of durable synthetic rubber material
- Physical dimensions: 6" (H) x 4" (W)x 1.5" (D) (158 x 100 X 37 mm)
- Available in two colors: red or blue



Part Number: **ST05AC**

Alligator Piercing Clip

- **Included with ST05 (one red and one black)**
- Bead of nail for piercing insulated wires
- Serrated claws for use as conventional alligator clip
- Available with black (ST05AC0) and with red (ST05AC2) insulating boot
- 2.5" x 1.125" x 0.625" (63.5 x 28.6 x 15.9 mm)

