

Exhaust Gas Diagnostics

Analyzer & Diagnostic Software

OBDII is great, but not the "Fix All" for diagnosing performance, drivability and catalytic converter issues.



KANE AUTOpius Gas Analyzer

- Tests HC, O2, CO, CO2, NOX and Lambda
- All readings LIVE, not calculated
- Self-calibrating, no cal-gas required
- Dyno not required for NOx testing

KANE LIVE Graphing Software

- Display LIVE readings on PC
- 🚯 Bluetoothör USB cable
- Save data to PC

ANSED Exhaust Gas Diagnostics Software

- Effective interpretation of exhaust gas readings
- Offers problem identification and potential solutions
- Diagnose no-code drivability & performance issues
- Insure catalytic converter related repairs are complete
- Print test results reports: pre- and post-repair
- Verify vehicle running at max efficiency after repairs and prevent comebacks

Exhaust Gas Diagnostics Kit

The process of diagnosing general performance, drivability, no code and catalytic converter issues can be complex and frustrating. Modern OBDII systems may miss problems too small or infrequent to set a code. In seconds, the Exhaust Gas Analyzer will detect problems too marginal to be detected by an onboard computer or a scan tool.

Experienced technicians agree that a Gas Analyzer is an integral part of their diagnostic toolbox. One quick test of the exhaust gases emitted from the tailpipe helps reduce diagnostic time, verify repairs are complete, reduce comebacks, and increase overall profitability and customer satisfaction.

With **ANSED Exhaust Gas Diagnostics System** there are no more charts and graphs, no more black magic calculations. The **ANSED Exhaust Gas Diagnostics Software** interprets the exhaust gases and their interactions, and provides a top-down list of suggested problems and solutions in order of probability.

And, the **KANE LIVE Graphing Software** allows LIVE detailed monitoring of the gas readings on your PC.

The ANSED Exhaust Gas Diagnostics System is the most complete and comprehensive solution on the market today.

Key Features

- OVGA Display - Large (3" x 2.2") and easy to read
- Ergonomic Design Keypad - Simple and easy to use
- Bluetooth or USB Cable
 Links analyzer easily to PC to use with KANE LIVE Graphing Software
- Variable Pump Speed
 Allows for adjustment of the pump speed, which can then improve battery life
- Hi-Speed Print Capability
 KMIRP2 high speed printer with rechargeable batteries

• Hi-Temp Probe - EPAUTO7 with Neoprene

tubing



AUTOplus 5 Gas Analyzer

Key Benefits

- Gas Analyzer is completely portable
 - Easy to hold in hand
 - Sample exhaust gas in the shop or on a road test
 - NOx testing without a dynometer
- Low cost to operate and maintain
 - Operates off internal re-chargeable battery
 - Self-calibrating,
 - no cal-gas required
 - Water trap and filter visible

• Fast diagnostic times

- All readings LIVE "real-time" - not calculated



Optional Printer (KMIRP2)

Diagnostic Software



Sample technician report



The **ANSED Exhaust Gas Diagnostics software** interprets the exhaust gas analyzer readings in seconds!

The software uses a floating matrix formula for each gas reading, coupled with other diagnostic variables, to enhance the accuracy. Several possible solutions, in order of probability, are suggested with the first one the likely cause in 80% of the situations.

Key Benefits

- Instant exhaust gas analysis with an easy-to-read PASS/FAIL report.
- Provides a top-down list of probable causes and suggested service options.
- Pre-repair reports provide initial gas analysis for review.
 - Customer Report offers a "customer friendly analysis" of the exhaust diagnostic test.
 - Technician Report details the diagnostic test results and suggested procedures.
- Post-repair report verifies that repairs have been completed and the vehicle is running at maximum efficiency.
- All reports can be printed or saved for future reference.

The **KANE LIVE Graphing Software** is a great way to connect to the AUTOplus Gas Analyzer to view gas exhaust readings, all in "real-time" on your PC via BluetoothTM or USB Cable.

Data is viewed either digitally or in graph form so you can easily track parameters over time as they change.

If required, the live data can be saved and stored on your PC. The software also allows for printing.

Key Benefits

- Monitor individual exhaust gas readings digitally on a larger PC screen.
- Graphically display individual gas readings over time.
- Check individual exhaust gas readings for dropouts, spikes or irregularities in graphing mode.
- Save all information to PC for future reference.



Accessories for AUTOplus Gas Analyzer

EPAUTO7

Hi-Temp Probe w/13ft. Neoprene tubing. Probe insertion depth 7.9". Probe supplied in kit.

EPAUTO8

Motorcycle Probe w/adjustable internal clamping mechanism. Hose is 4.8ft. and insertion depth is 9".

EPAUTO9

Heavy Duty and Hi-Temp Probe. 19ft. hose w/OD coupling (200°F max) and stainless steel probe (1200°F max), with insertion depth of 12.6".

CA10733/4

12v Charger. 7ft. length.

PF2/10

Replacement filters for watertrap. Pack of 10.

SM11629 Replacement watertrap.

KMIRP2

Compact Hi-Speed Printer with rechargeable batteries. Paper is $2-1/4^{"}$ wide. Unit measures 6" x 4".

TP5

Replacement Printer Paper. Pack of 5 rolls.



Technical Specifications



Parameter		Resolution	Accuracy	Range
Carbon Monoxide (Infrared)	СО	0.01%	+/- 5% of reading +/- 0.06% volume	0-10% Over-range 20%
Oxygen (Fuel Cell)	02	0.01%	+/- 5% of reading +/- 0.1% volume	0-21% Over-range 25%
Hydrocarbon (Infrared)	HC	1 ppm	+/- 5% of reading +/- 12ppm volume	0-5000ppm Over-range: 10,000ppm
Carbon Dioxide (Infrared)	CO2	0.10%	+/- 5% of reading +/- 0.5% volume	0-16% Over-range: 25%
Nitric Oxide (Fuel Cell)	NOX	1 ppm	0-1500ppm +/-5% or 25ppm	0-1500ppm Over-range: 5000ppm
Lambda AFR (Petrol) (LPG)		0.001 0.01		0.8 - 1.2 11.76 - 17.64 12.48 - 18.72



The KANE LIVE Graphing Software is available to download: www.ANSEDdiagnostics.com

System Requirements

- A PC with Bluetooth capability required or you can use the CL5 USB cable, included in kit.
- PC must have OS Version:
 - Windows XP (sp3)
 - Windows Vista
 - Windows 7

The ANSED/AUTOplus5 Diagnostic Kit includes:

- KANE AUTOplus 5 Gas Analyzer
- EPAUTO7 Hi-Temp Probe
- AC Charger
- 12V DC Charger
- Five (5) Replacement Filters
- User Manual & Quick Start Guide • ANSED Exhaust Gas Diagnostics
- Software *(setup & 1st year free)*
- KANE Live Graphing Software
- CL5 USB Cable
- Shoulder Bag
- TOLL FREE Support Help Desk

Sensor response T95	Nominal 20 seconds	
Warm up	Less than 2 minutes	
Pre-programmed Fuels	Gasoline, LPG, Diesel and CNG	
PC connection	Via Bluetooth or CL5 USB cable	
Data-Logging	500 Tests	
Languages	English, Spanish, French, German & Dutch	
	2.2 Pounds 8.7" x 2.2" x 4.7"	
Ambient Operating Range	41°F to 113°F/10% to 90% RH non-condensing	
Storage temperature	32°F - 122°F	
Battery Type	Rechargeable AA NiMh Battery Pack	
Battery Charger	Input: 100-240V ~ 47-63Hz, Out- put: 12V DC	
Analyzer battery run time	4+ hours from full charge with the pump running, 8+ hours with pump off. To charge, 6-8 hours.	



The ANSED Software is accessible on the Internet via a browser: www.ANSEDsoftware.com

System Requirements

To access and use the software, you will need the following:

- An Internet connection with at least a 512k connection speed. We recommend a minimum of 1 MB for best results.
- A web browser. The following browsers are supported:
 - CHROME, version 35.0 or later - FIREFOX, version 30.0 or later
 - INTERNET EXPLORER, version 10.0.6 or later
 - SAFARI, version 6.0.5 or later
- Other browsers are not supported by ANSED.





www.aatecusa.com Call 330-239-1647 sales@aatecusa.com

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