

11. Gas analyzer & Diesel Smoke tester



AUTOMOTIVE GAS ANALYZER KEG-500 /KEG-200

Emission gas testing of Gasoline, LPG, CNG engines possible

KEG-500



✓ 4 gas,
✓ 5gas(optional)

KEG-200



✓ 2 gas



Standard Accessories



Back side

Features

- Outstanding accuracy, stability and durability
- Nox measurement (optional)
- Temporary pause to measurement(Hold function)
- Portable(compact size, light weight)
- Extra filters and printer paper
- Compatible with chassis dynamo and engine tune-up
- Durable Performance that has passed a severe cold test at -10 °C
- Automatic Temperature Adjustment (2~8 min)
- 6 LED Display Windows (CO, HC, CO2, O2, λ, NOX),
- Built-In Printer (KEG-500)
- Time and Date Display Option when using printer
- RS232 PC Program (KEG-500)
- Suitable for professional engine tune-ups
- Suitable for professional vehicle emission gas testing shops



Specification

Model	KEG-200(2gas) / KEG-500(4gas/5gas)			
Measuring gas	CO, HC, CO2, O2, Lamda(Air surplus rate), AFR, NOX (5gas)			
Sensor Theory	CO, HC, CO2, Non-Dispersive Infrared Analysis(NDIR) O2, NOX: Electrochemical Cell			
Measuring range	CO	HC	CO2	
	0.00 ~ 10.0%	0 ~ 9999 ppm	0.0 ~ 20.0%	
Resolution	0.01%	1 ppm	0.1%	
Measuring range	O2	λ	AFR	NOX
	0.00 ~ 25.00 %	0 ~ 2.000	0.0~99.0	0 ~ 5,000 ppm
Resolution	0.01 %	0.001	0.1	1ppm
Display	4 digit 7segment LED			
Repetition Rate	Less than 2% FS			
Response time	Within 10 seconds			
Preheat Time	Approx. 2~8 minutes			
Flow rate	4 ~ 6 L/min			
Power	110V/ 220V±10%, 50/60Hz			
Power consumption	Approx. 50W			
Operation Temp	0 ~ 40°C			
Dimensions	420 (W) x 298 (D) x 180 (H) mm			
Packing Size	530 (W) x 400 (D) x 350 (H) mm			
Weight(Net/Gross)	6.9 kg / 12.5kg			
Standard Accessories (KEG-500)	Probe, Probe hose, Fuse, Leak test cap, Spare filter, Power cord, RS232, Built-in Printer, Printer paper, Communication cable			
Options	RPM & OIL temp. meter Built-in printer for KEG-200			

The manufacture reserves the right to change the product specifications without notice and liability in order to upgrade the quality.

DIESEL OPACITY SMOKE METER OP-201

OP-201



✓ **Emission testing of Diesel engine possible**



Standard Accessories

Optional Accessories

Features

- Real-time smoke measurement(% , k [m⁻¹])
- Portable and LED display
- Outstanding accuracy, stability and durability
- Response time of 0.5 second
- Smoke, SOF measurement
- Easy to use with handheld terminal(option)
- Built-in printer(option)
- RS232C PC program
- RPM/ Oil temp. meter(option)
- Auto-Zero/ Span calibration function

Specification

MODEL	OP-201
Measuring items	Smoke opacity (% , k [m ⁻¹]) RPM (option), °C (option)
Principle	Light extinction method (Partial-flow sampling type)
Light source	Green LED(565nm)
Detector	Photo diode
Range	0.0~100.0% (0.00~21.42m ⁻¹)
Accuracy	Less than 1%
Warm-up time	3~6 minutes
Display time	4 times /sec
Power	220V / 110V AC 50/60Hz
Temperature	-10~40°C
Dimension	450(W) x 200(D) x 245(425)(H) mm
Weight (Net/Gross)	About 7kg / 11kg
Option	RPM/ Oil temp. meter, Handheld terminal, Built-in printer, Standard filter, PC program

Installation and measurement OP 201

- Single unit of the analyzer covers the display and the printing of measured value that are recorded in its main body, and can be easily hand-carried.
- No more than one tester operator behind the wheel would be enough to conduct the free acceleration test to obtain the measured value stepping on the accelerator and using wired or wireless handheld terminal.
- In supply of diversified basic PC software: PC program are provided in the way to cover regulations from various countries and also ramified for users' purposes such as governmental agency's use, inspection or repair of vehicle.

DIESEL SMOKE TESTER

DS-2000



Features

- Semi-permanent life time guaranteed
- Indication of the value in decimal point to enhance the accuracy
- Rapid and accurate service system provided to realize the best service, regardless of service period

Specification

Model	DS-2000
Smoke sampling	Air cylinder
Sampling Volume	330 ± 15cc
Display	digital display
Testing method	standard contamination paper
Measurement range	0.0~100 %
Degree of indication	Max, indication 2%
Min, Scale Value	0.1% (1/1000)
Power supply	AC 220V / 50~60 Hz
Dimension	330 x 360 x 370(mm)
Packing dimension	360 x 380 x 380(mm)
Weight (Net/Gross)	15 kg / 18 kg

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