GAS ANALYZER
DIESEL SMOKE TESTER
OPACIMETER

Gas Analyzer

Diesel Smoke Tester

Opacimeter

KE Koeng Co., Ltd.

INFRARED MULTI-FUNCTION AUTOMOTIVE GAS ANALYZER

KEG-500(4gas)

Features — KEG-500(4GAS)

- Outstanding accuracy, stability and durability
- NOx measurement upgradable(option)
- Response time of less than 10 seconds
- Stand-by for low power consumption when unit is not in use
- Automatic adjustment of warming-up time (2~8minutes.)
- Six LED indicators
- internal printer
- RS232 PC program
- Elegant appearance
- Portable (compact size, light weight)
- Extra filters and printer paper
- For professional use of engine tune-up
- Compatible with chassis dynamo and engine tune-up

Function — KEG-500(4GAS)

- Air leakage check
- Hold : temporary pause to measurement
- The zero/span calibration
- The selection of fuel type : 1.Gasoline 2.LPG
                               3.CNG 4.Alcohol
- Hcv and Ocv conversation
- Printing of data

KEG-200(2gas)

Features — KEG-200(2GAS)

- Portable (compact size, light weight)
- Outstanding accuracy, stability and durability
- Response time of less than 10 seconds
- Stand-by for low power consumption when unit is not in use
- Automatic adjustment of warming-up time (2-8minutes.)
- Two LED indicators
- Extra filters and printer paper
- Elegant and simple appearance

Function

- Air leakage check
- The zero/span calibration

Specification — MODEL

Model	KEG-500(4GAS)		KEG-200(2GAS)	
Measuring item	CO, HC, CO2, O2, λ (air surplus rate), AFR, NOX (optional)		CO, HC	
Measuring method	CO,HC,CO2:NDIR Method O2,NOX:Electrochemical Cell		CO, HC : NDIR	
Measuring range	CO	0.00~9.99%	HC	0~9999ppm 0~20,000ppm(optional)
Resolution		0.01%		1ppm
Measuring range	CO2	0.0~20.0%	O2	0.00~25.00%
Resolution		0.1%		0.01%
Measuring range	λ	0~2.000	AFR	0.0~99.0
Resolution		0.001		0.1
Measuring range	NOx	0-5000ppm		
Resolution		1ppm		
Repeatability	Less than ±2% FS			
Response time	Within 10 seconds (more than 90%)			
Warming up time	About 2 ~ 6 minutes			
Sample collecting quantity	4 ~ 6 L/min			
Power	AC110V / AC220V ±10%, 50 / 60Hz			
Power consumption	About 50 W			
Operation temperature	0℃ ~ 40℃			
Dimensions	285 (W) × 410 (D) × 155 (H) mm			
Packing dimensions	530 (W) × 430 (D) × 350 (H) mm			
Net Weight(Gross weight)	4.5 kg (9.2 kg)			
Basic accessories	Probe, Probe hose, Spare fuse, Leak test cap, Spare filter, Operation manual, Power cord, Ground cable, Calibration controller nipple, Calibration connecting hose RS232, Communication cable, Printer, Printer paper(2gas opional)			

DIESEL SMOKE TESTER / DS2000

Features — DS-2000

-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 customer service, regardless of service period

Specification — DS-2000

DS-2000

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

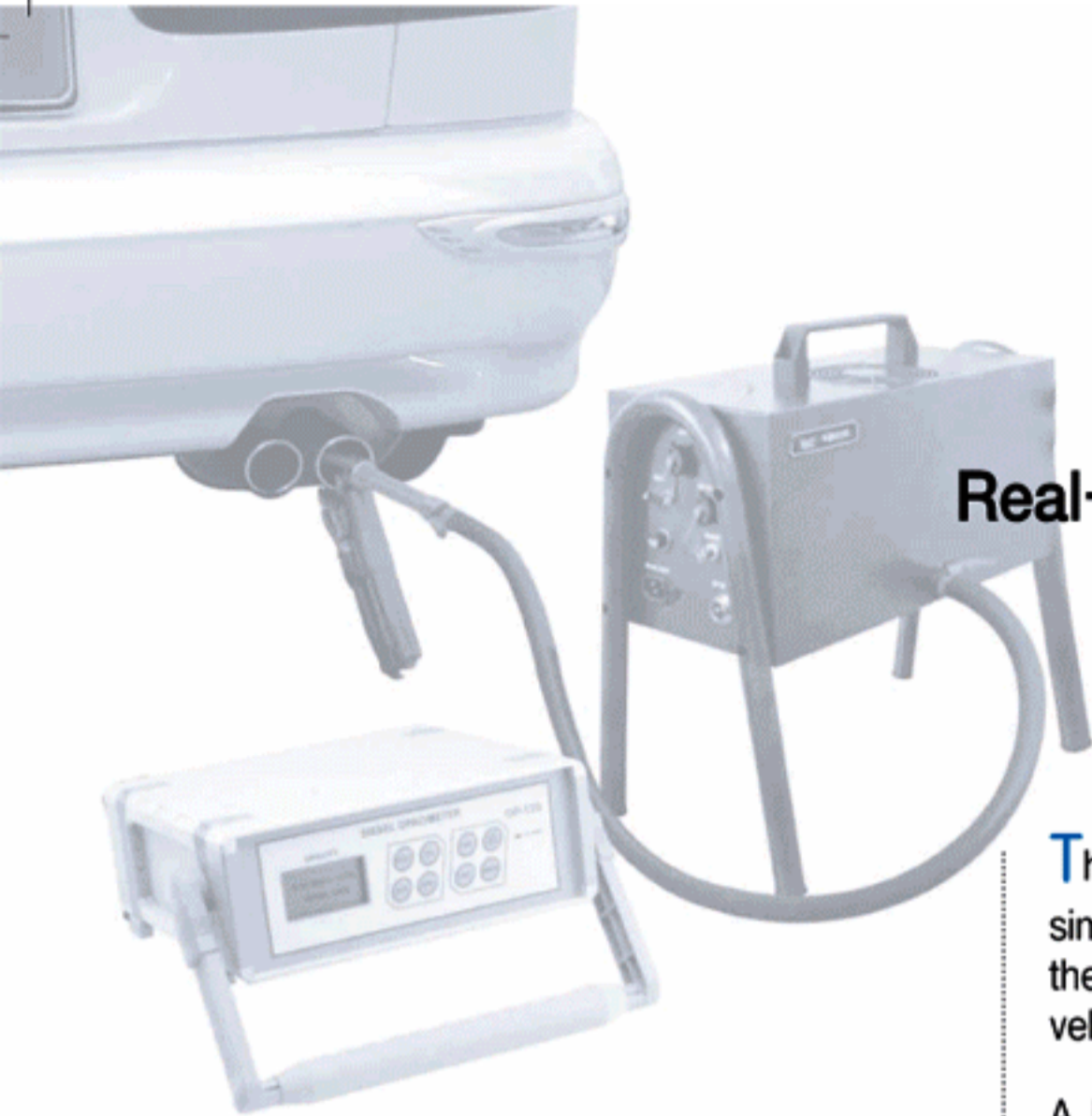# AUTOMATIC THREE MODE

DIESEL SMOKE TESTER—DS3000

Features — DS-3000

-Automatic three mode
-Portable (compact size)
-internal printer
-Pc program (RS232) (optional)
-Wireless remote control (optional)

DS-3000

Specification — DS-3000

Measurement principle	Reflection photometry
Smoke sampling	Air cylinder
Samplyng volume	330± 15cc
Display	digital display
Measurement range	0~100%
Power suppiy	AC 110V or AC220V±10% 50/60Hz
Dimensions (mm)	250(W) X 400(D) X 250(H)
Weight	About 8kg

OPACIMETER
Real-time Smoke Measurement

OP-120

The Model OP120 smoke (opacity)meter provides a simple and accurate tools of detecting and measuring the opacity of smoke emitted from a diesel engine, a vehicle and an industry stack.

A light sensor reads the opacity of the emissions and relays the readings to the control unit's display.
Both the snap acceleration and the "follow-up mode" test(continuous readings under load) can be performed. Test results can be printed individually on the system's printer, and 50 tests can be stored.

Features   OP-120

- Optical head : partial-flow sampling-type
- Measuring parameters
  - Opacity : max. 2 channels, 0~99.9% opacity
  - Oil temperature : 1 channel, k-type thermocouple
  - Engine speed : 1 channel, optical or piezo sensor
- Test mode
  - Snap acceleration test and follow-up mode test
  - Eplust can meet customers' requirements.
- Stand-alone : DC 12V Power in put is also available
- Remote control via RS232 communication.
- It meets all reguaments of ISO 11614

Specification   OP-120

Light source	LED, 563nm(peak)
Detector	photodiode
Output for record	Graphic LCD 0.1% resolution
Accuracy	Less than ±0.5%
Measuring	0.0~100.0% opacity
2nd order Bessel filter	0.45 sec response time
Measuring interval	0.01sec
Zero drift	Less than 0.2% per hour
Warm-up time	10~20sec
Analog output	0~1or 0~5Volt
Input Power	100~220 VAC

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