

COMMON SPECIFICATION

Smoke Analyzer

Measurement items	Smoke concentration (Opacity), absorption coefficient (K-value)
Measurement method	Partial flow sampling method / Light transmission type
Photoelectric element	Green LED (565nm)
Detector	Photodiode
Tube Length / ID.	Length: 215mm (± 0.5mm), ID.: 21mm
Measuring range	Opacity: 0% ~ 100%, K-value: 0.00 ~ 16.06m-1
Resolution	0.1%
Accuracy	Opacity: <0.2% abs., 1.0% rel.
Response time	<0.5 sec ± 0.0015 sec
Physical response time	<0.2 seconds (cyclic response)
Filter	2nd vessel filter (1 second)
Preheating time	within 5 minutes
Tube temperature	80 °C
Pressure difference (atmosphere: cell)	0.70 kPa or less
Sampling unit	Probe material: SUS304 Length: 400mm, ID.: 10mm, OD.: 22mm Connection hose material: silicone Length: 1,500 / 2,500 / 5,000mm ID.: 12mm, OD.: 22mm

Operating Environment
Power supply

Temperature: -10 ~ 50 °C, Humidity: 0 ~ 90% RH
DC12V ~ 24V, AC220V 50 / 60Hz



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GAS Analyzer

Measurement	CO : 0.00 ~ 15.00% (resolution: 0.01% / accuracy: ± 0.02% abs., ± 3% rel.), 10.01 ~ 15.00% (0.1% / ± 5% rel.) HC : 0.00 ~ 2,000ppm (resolution: 1ppm / accuracy: ± 4ppm abs., ± 3% rel.), 2,001 ~ 15,000ppm (1ppm / ± 5% rel.) 15,000 ~ 30,000ppm (1ppm / ± 8% rel.) CO2: 0.00 ~ 16.00% (resolution: 0.01% / accuracy: ± 0.3% abs., ± 3% rel.), 16.01 ~ 20.00% (0.01% / ± 5% rel.) O2: 0.00 ~ 25.00% (resolution: 0.01% / accuracy: ± 0.01% abs.) NOx (Option): 0.00 ~ 4,000ppm (resolution: 1ppm / accuracy: ± 20ppm abs., ± 4% rel.), 4,001 ~ 5,000ppm (1% / ± 5% rel.) Lambda: 0.50 ~ 3.00 AFR: 5.00 ~ 25.00
Response time	within 10 seconds, preheating time within 60 seconds
Communication port	RS232C / 19,200bps (Touch Screen Type) / 9,600bps (PC Type)
Operating temperature	-10 ~ 50 °C (Touch Screen Type), 0 ~ 50 °C (PC Type)
Power Source	Touch Screen Type: AC 110 / 220V, 50 ~ 60Hz, 120W (DC 12V, 10A) Portable Gas: AC 110 / 220V, 50 ~ 60Hz, 120W (DC 12V, 7A) PC Type: AC 85 ~ 132 (AC 170 ~ 264V), 50 ~ 60Hz, 50W

RPM Meter

Model	SR-04BN
Measurement principle	Battery method
Measuring range	600 ~ 9,999 RPM
Resolution	10 RPM

RPM Meter

Model	SR-20VI
Measuring principle	CAPTHOS 3D vibration sensor method
Measuring range	400 ~ 9,999 RPM
Resolution	10 RPM

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PG-19

PS-19

KGT-24

KST-24

KGST-24

GP-20G

GP-20S

**AUTOChek
Series**

AUTOChek Gas Analyzer AUTOChek Smoke Analyzer

*Exhaust Gas & Smoke Analyzer
for Automobile*

SPTC

Specialized manufacturing company specialized
in the environment measuring field
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P

ortable Type



PG-19 Portable Gas Analyzer

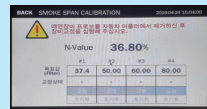
- Combustion, LPG, CNG aviation exhaust gas measurement with one meter
- Measurement items: CO, HC, CO₂, NOx, Lambda, AFR
- High precision gas meter
- Automatic zero adjustment and self-diagnosis function
- Fast warm-up time (within 60 seconds) and quick response time (within 10 seconds)
- 4/5 gas setting function
- NOx sensor (optional)
- RPM & oil temperature measurement (optional)
- Built-in thermal printer
- 7 inch touch screen display(1024 x 600 HDMI)
- Via Bluetooth communication
- Built-in sound function
- Complete blocking of efficiency
- Provide control program for PC (RS232 / Bluetooth)
- Built-in battery for measurement anytime, anywhere (optional)



Transfer photos and measurement data to the server via Lte using a separately provided tablet and manage it as an Excel file

PS-19 Portable Smoke Analyzer

- Satisfies French NF-R 10-025 standard
- 2nd vessel filter
- High performance and accurate smoke concentration measurement
- Measurement value notation: soot concentration (%), light absorption coefficient (K) (m⁻¹)
- Automatic zero calibration and self-diagnosis function
- Automatic average measurement calculation function
- 2 in 1 type: soot concentration + RPM
- Built-in thermal printer
- Built-in 7-inch touch screen display(1024 x 600 HDMI)
- Portable tablet controller connection via Bluetooth communication
- Built-in sound function
- PC control program provided (RS232 / Bluetooth)



T

ouch Screen Type

Anycar **AUTO Chek** Gas Analyzer (Touch Screen) Gas & Smoke

GP-20G / GP-20S



- Emission measurement of gasoline, LPG, CNG vehicles with one measuring instrument
- Measurement items: CO, HC, CO₂, NOx, Lambda, AFR
- High performance, high precision gas meter
- Automatic zero adjustment and self-diagnosis function
- Fast warm-up time (within 60 seconds) and fast response time (within 10 seconds)
- 4/5 gas setting function
- NOx sensor (optional)
- RPM & OIL temperature measurement (optional)
- Built-in thermal printer
- Built-in 7-inch touch screen display(1024 x 600 HDMI)
- Built-in sound function
- Complete blocking of condensate



Anycar **AUTO Chek** Gas Analyzer (Touch Screen) Gas

GP-20G

- Common**
- High-grade aluminum case
 - Built-in 7-inch touch screen display(1024 x 600 HDMI)
 - Performance that meets Bar97 and OIML Class 1 & 0 standards
 - User-oriented UI
 - Convenient filter replacement
 - Separate large display panel connection (optional)
 - PC control program provided (RS232 / Bluetooth)

Anycar **AUTO Chek** Smoke Analyzer (Touch Screen) Smoke

GP-20S

- Satisfies French NF-R 10-025 standard
- 2nd vessel filter
- High performance and accurate smoke concentration measurement
- Measurement value notation: soot concentration (%), light absorption coefficient (K) (m⁻¹)
- Automatic zero calibration and self-diagnosis function
- Automatic average measurement calculation function
- 2 in 1 type: soot concentration + RPM
- Built-in thermal printer
- Built-in 7-inch touch screen display(1024 x 600 HDMI)
- Built-in sound function

K

iosk Type



KGT-24W10 Kiosk Type Gas Analyzer

- High performance, high precision gas meter
- Automatic zero adjustment and self-diagnosis function
- Fast response time (within 10 seconds)
- NOx sensor (optional)
- Built-in sound function
- 4/5 gas setting function
- Fast preheating time (within 60 seconds)
- Complete blocking of condensate
- Measurement items: CO, HC, CO₂, NOx, Lambda, AFR
- RPM & OIL temperature measurement (optional)

KST-24W10 Kiosk Type Smoke Analyzer

- Satisfies French NF-R 10-025 standard
- Measurement value notation: smoke concentration (%), light absorption coefficient (K) (m⁻¹)
- High performance and accurate smoke concentration measurement
- Automatic zero calibration and self-diagnosis function
- Automatic average measurement calculation function
- 2 in 1 type: soot concentration + RPM
- 2nd vessel filter
- Built-in sound function

KGST-24W10 Kiosk Type Gas & Smoke Analyzer

Integrated Model of KGT-24W10 and KST-24W10

- Common**
- OS: Windows 10
 - 24 inch touch panel integrated PC
 - Screen height adjustment
 - Dedicated keyboard and mouse provided
 - Data analysis / storage (Storage capacity: optional)



Optional parts



Spare parts



Standard accessories

