SGA 40

SGA 40 has been produced since 1994 and in over 20 000 units.

The gas analyzer has large 25 mm LED displays and a professional design. With its robustness and many automatically functions such as automatic zero calibration, leak check and HC ”hang-up” test. It is an easy used and handled machine.

SGA 400 is manufactured in Sweden, by industrial components of best quality, and the analyzer is used for gas analysis of cars (petrol/LPG/diesel), motor cycles, and heavy vehicles such as trucks and busses at car inspection stations and garages all over the globe.

- WPS “Water Protection System”: protects the sampling chamber of the IR bench from being damaged of moisture/liquids if those would enter the analyzer.
- Built in high speed thermo printer: Gas- and smoke values, Hi-Lo tests printed according to 96/96/EEC.
- S/w flexibility and adaptation: Analyzers s/w can be programmed with specifications to fulfill different legislations of countries and regions.
- Optical IR bench: Solid state detector, OIML class 0 with high accuracy.
- Reliability: 12 months calibration intervals.
- OPUS 40 has a flexible design and is adaptable as 3-, 4- or 5-gas analyzer with NOx.
- 4- gas analyzing combined with k- value and opacity samplings are is available as the SGA 40 Combi.
- Mobile trolley is available as option.

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SGA 40 meets the OIML class 1 certifications. (The IR bench is classified with OIML class 0).

A hand held alphanumerical LCD remote control is included. The devise is needed for smoke samplings, but can also be used in gas samplings, for entering useful vehicle info to analyzer, and for guiding operator to specific test modes.

Technical data 4/5 gas

	Range	Resolution	Accuracy*
CO	0 - 10 vol. %	0,01 vol. %	0,02 vol. %
HC	0 - 20 000 vol.	1 vol. ppm	4 vol. ppm
CO_2	0 - 20 vol. %	0.1 vol. %	0.3 vol %
O_2	0 - 25 vol. %	0.01 vol. %	0.1 vol %
Lambda	0.6 – 1.7	0.001	
AFR	0-35	0.01	
NOx	0 - 5000 vol.	1 vol. ppm	25 vol. ppm
Rpm (2/4 stroke)	0 - 9999 r/m	1 1/m	
OilTemp	0 - 160 °C	1 °C	
Deviation	Max 0.6 % of full-scale deflection the first operating hour. Maximum 0.4 % per hour thereafter. * Or lowest 3 % of reading		

Warm up time:	< 5 mins at 20 °C
Response time:	< 5 sec. to 95 % of meas.value.
Pump capacity:	5 liters / minute, minimum, 7 liters / minute, nominal.
Max exhaust temp:	400 °C
Hose and probe:	7 m gas sampling hose with stainless steel probe
Optical bench:	Non Dispersive Infra Red (NDIR)
MPU:	16 bit micro processor
Printer:	Thermal printer
Externals:	RS 232 2x accessories connectors RPM pick up w 5 m cable Oiltemp. probe w 5 m cable
Sound level:	42 dBA at 1 m's distance with pump turned OFF 45 dBA at 1 m's distance with pump turned ON
Power supply:	240 VAC. 50/60 Hz.
Dimensions (WxHxD):	420 x 190 x 350 mm.
Weight:	Approx. 12.5 kg
Operating conditions:	Temp: +5 to + 48 ˚C Rel. air humidity: up to 90 % Atmospheric ambient pressure: 750 mbar – 1100 mbar Power: 230 VAC -15% to +10%, 50/60 Hz +/- 2% 12 months warranty

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