ENVIROCLEAN

SGA 400

Gas Measurement

SGA 400 is made of the best available components of industrial quality for testing cars and motorcycles in vehicle inspection stations and professional workshops.

The success with the SGA 40 series continues with the SGA 400. Many key features are kept, they just worked too well to be changed. Other features are new to further improve the measurements and handling.

The startup time for the SGA 400 up is very short and the new water protection system Aqua Sense keeps the instrument from being damaged by water.

The measurements are very easy to read thanks to the large and very bright LED display, even at long distances.

Communication now also with Bluetooth enables flexible solutions for the modern workshop and vehicle inspection. This enables the user not only to be able to display the values but also to maneuver the machine via PC or another host.

- **Aqua Sense:**
  protects the optical bench from being damaged of liquids if those would enter the analyzer.
- **Communication:**
  The SGA 400 features both USB and Bluetooth.
- **Fast warm up time:**
  The warm up time of the optical bench is less than 10 sec and full accuracy is reached within 2 minutes of running.
- **Optical IR bench:**
  Solid state detector, OIML class 00 with latest technologies and highest accuracy available.
- **Upgrades:**
  New firmware can be downloaded via USB. Much quicker and more reliable than earlier proms.
- **Measurement:**
  Both accuracy and resolution are improved comparing with precursor.

With the SST 100 smoke option the SGA 400 becomes a combination analyzer for measurements of petrol, LPG and diesel driven vehicles.

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Accessories:

OIML & MID

SGA 400 meets the OIML class 00 certifications and is MID approved.

Technical Data

	Range	**Accuracy** +/-abs (+/-rel.)	**Resolution**
CO	0 – 10 vol. % 10,01 % - 15 %	0,02 % (3 %) 5 %	0,01
HC	0 – 2000 ppm 2001 -5000 ppm 5001 - 15000 ppm	4 ppm (3 %) (5 %) (10 %)	1
CO_2	0 - 16 vol. % 16,01 - 20 %	0,3 (3 %) (5 %)	0,01
O_2	0 - 25 vol. %	0,02 % (1 %)	0,01
Lambda	0,6 - 1,7		0,001
AFR	0 - 35		0,01
NOx	0 - 5000 vol. ppm		1
Rpm	0 - 9999 r/m (2/4 stroke)		1
Oil temperature	0 – 160 °C		1
Warm up time	<10 sec, full accuracy within 2 minutes		
Response time	<5 sec to 95% of reading		
Pump capacity	5,5 l/min minimum, 6,5 l/min nominal		
Max exhaust temp	400 °C		
Hose & Probe	7 m sampling hose with stainless steel probe		
Optical IR bench	Non- dispersive infra-red (NDIR) OIML class 00, semiconductor detector		
Printer	Thermal Printer		
External conn.	Bluetooth, rpm sensor w cable battery / inductive / OBD LCD- Remote Control, other remotes		
Power Supply	100 - 240 VAC, 50-60 Hz, 10-30 VDC, 30 W (with transformer)		
Dimensions (WxHxD)	400 x 240 x 260 mm		
Weight, kg's	5,3		
Working conditions	Relative Humidity: up to 90% Ambient atmospheric pressure: 750 mbar - 1100 mbar Voltage variation: 230 VAC -15% to +10% 50 Hz +/- 2 %		
Warranty	12 months		

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