



SUN EMISSIONS RANGE

CAR & COMMERCIAL EMISSION SOLUTIONS

PETROL & COMBI EMISSIONS ANALYSER

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DGA 1500 EMISSIONS ANAYLSER

Snap-on is pleased to announce the release of the re-designed Sun DGA 1500 emissions analyser as the successor to the very successful Sun DGA 1500.

The Sun DGA 1500 is available as a petrol, diesel or combi unit with Bluetooth communication options for the smoke meter DSS-3 and for oil temperature and RPM measurements.

Features

- · Compact robust design
- · Available as 4 / 5 gas petrol, diesel or combi unit
- Large easy-to-read high-resolution graphical LC display
- Interactive simple-to-use remote control keypad
- · On-board thermal printer
- RPM and oil temperature measurement

Options

- · Wireless RPM/oil temperature kit
- Bluetooth EOBD interface
- Bluetooth adaptor DGA 1500
- · Bluetooth adaptor for smoke meter
- DGA1500 trolley



0, 00 co2	CO corr. % vol.	∰ _{F1} M _{F2} ⊗ _{F1}	
HC PPO	^{вён} О	0,	
°2209	Tenp. *c	0/2	
MEASURE			

Operating Conditions

Power supply:	90-260 VAC, 50-60 Hz
Operating temperature:	0°C to 40°C
Dimensions w/o trolley (l x p x h)	380 x 270 x 200 mm
Weight	7 kg





WIRELESS & BLUETOOTH™ OPTIONS

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Technical Specifications - Scale Ranges

Measurement	Ranges	Accuracy	Resolution
HC			
Normal resolution:	0 to 20000 ppm Hexane	10 ppm HC	1 ppm vol
High resolution:	0 to 2000 ppm Hexane	1 ppm HC	1 ppm vol
CO	0 to 15%	0.03%	Normal resolution 0.01 % vol
			High resolution 0.001 % vol
CO ₂	0 to 20%	0.30%	Normal resolution 0.1 % vol
O_2	0 to 21.7%	0.10%	If $O_2 > 4\%$ vol. high resolution : 0.01 % vol
			Otherwise normal resolution: 0.1% vol
NO _X	0 to 5000 ppm	32 ppm (01000 ppm)	1 ppm vol
		60 ppm (10012000 ppm)	
		120 ppm (20025000 ppm)	
Engine speed	0 to 9999 rpm	± 10 rpm	1 rpm
Oil temperature	−5 to 150°C	± 1°C	1°C
Corrected CO	0 to 10%	0.03%	0.01%
Air/fuel coefficient	0.600 to 1.200	0.03	0.001 or 0.01 (selectable)

Wireless RPM/Oil Temperature Kit

- · Measures RPM via the battery ripple
- Measures oil temperature via the oil dipstick
- Bluetooth communication between the RPM/oil temperature kit and the DGA 1500

Bluetooth™ Adaptor DGA 1500

· Required with all Bluetooth options!

Bluetooth™ EOBD Interface

- · Easy to use
- Delivers RPM / oil temperature to DGA 1500 emissions analyser
- · Capable of working with mandatory official tests
- Multi-vehicle manufacturer compatibility
- Bluetooth communication between EOBD tool and the DGA 1500

Bluetooth™ Adaptor Smoke Meter

- Wireless communication between DSS-3 and DGA 1500
- · Includes a 5 meter power cord

Wireless Remote Control

- · Portable and light, just 300g
- · Automatic connection via Bluetooth
- · Large screen, making information easy to read
- · Back-lit display, so clear and easy to read even in the darkest workshop
- Power supply: from 8 VDC to 36 VDC, with vehicle power cable provided













SMOKE METER DSS-3

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DGA 1500 EMISSIONS ANALYSER

The DSS-3 smoke meter allows fast, precise analysis of opacity on diesel engined vehicles. Designed to operate in the tough environment of workshops and test lanes the DSS-3 is available in configurations to meet the needs of the most exacting test environments.

Features

- Analysis of opacity
- · Automatic zero and calibration
- · No manual calibration required
- · Bluetooth in conjunction with Bluetooth module
- Robust design



Technical Specifications of Smoke Meter DSS-3

Power supply:	1.5 A / 115 VAC		
	0.9 A / 230 VAC (+10% -15%)		
	50 – 60 Hz (± 2%)		
Effective length of the measuring chamber:	215 mm ± 0.05 mm		
Preheating time:	from 3 to 6 min depending on ambient temperature		
Zero adjustment and calibration before use:	automatic		
Control of zero adjustment:	automatic by electrical filter centred at 50%		
Ambient temperature range for operation:	+5 to +40°C.		
Humidity:	30% to 90%		
Storage temperature:	-32°C to +55°C		
Measurement range of the measured value:	Opacity: 0.00 to 9.99 m ⁻¹		
Resolution:	0.01 m ⁻¹		
Maximum relative error:	Under standard conditions (temperature +20 °C, atmospheric pressure		
	1013 hPa, relative humidity $60\% \pm 15\%$), opacity error below 0.15 m ⁻¹		
Measurement range of influencing factors:			
(which allow correction of the opacity value)			
Temperature of the gas being measured:	0-256 °C (resolution 1°C)		
Physical response time 10% to 90%:	less than 0.2 sec for gas at 75 l/min		
Electrical response time:	0.9 sec		



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