

## DGA 1500

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### Diagnostic Gas Analyser

- Compact robust design
- Available as 4 / 5 gas petrol, diesel or as a Combi unit
- Large easy to read high resolution Graphical LCD display
- Interactive simple to use keypad
- On board thermal printer
- MID Directive compliant
- RPM and Oil temperature measurement



# DGA 1500

With over 70 years experience in the automotive aftermarket, the Sun brand has become synonymous with quality and service with an unparalleled reputation for providing excellent value. The Sun DGA1500 diagnostic gas analyser has been developed with all the above qualities in mind.

With a fast warm up and initialisation, the DGA1500 is ready for action in a matter of minutes, and by using clear easy to use controls does not require specialised training.

The DGA1500 has a large high-resolution Graphical LCD display, an easy to use interactive keypad, and has an onboard thermal printer to produce hard copy reports of test results.

## Technical Specification

Scale Ranges			
Measurement	Ranges	Accuracy	Resolution
HC			
Normal resolution	2001 to 20000ppm Propane	$\pm 10\text{ppm vol. hexane or } \pm 5\% \text{ relative}^*$	10ppm
High resolution	0 to 2000ppm Propane	$\pm 10\text{ppm vol. hexane or } \pm 5\% \text{ relative}^*$	1 ppm vol
CO	0 to 5%	$\pm 0,03\% \text{ vol. or } \pm 5\% \text{ relative}^*$	Normal resolution 0,01 % vol High resolution 0,001 % vol
CO2	0 to 20%	$\pm 0,5\% \text{ vol. or } \pm 5\% \text{ relative}^*$	Normal resolution 0.1 % vol
O2	0 to 21.7%	$\pm 0,1\% \text{ vol. or } \pm 5\% \text{ relative}^*$	If O2 $\leq 4\% \text{ vol.}$ High resolution : 0.01 % vol Otherwise normal resolution : 0.1% vol
Nox	0 to 5000 ppm	$\pm 25\text{ppm vol. or } \pm 4\% \text{ relative}^{**}$	1 ppm vol
Engine speed	0 to 9999 rpm	$\pm 10 \text{ rpm}$	1 rpm
Oil temperature	-5 to 150°C	$\pm 1^\circ\text{C}$	1°C
Corrected CO	0 to 10%	0.03%	0.01%
Air/fuel coefficient (Lambda)	0,8 to 1,2	0.03	0.001 or 0.01 (selectable)

\* you have to choose (between the maximum absolute error allowed and the maximum relative error allowed) the best case for user regarding the gas concentration.

\*\* in the MID certification or in the OIML R99 certification there is no specification on the maximal error allowed. The provided values are identical to the BAR-97 certification ones.

### Operating conditions:

Power supply: 115-230 V / 1,5A ; 47-63 Hz  
 Operating temperature: -10°C to +55°C  
 Dim. Case: (l x h x p) 451 x 181 x 310mm  
 Weight: 8,9 kg

### General:

Complies with the MID Directive ISO 3930.

Warming up time: < 9 minutes  
 At 23°C it will take about 3 minutes  
 Minimum time is 1 minute

Response time: between 5 and 6 seconds for CO, CO2 and HC  
 28 seconds for oxygen (transition from 20.9% to 0.1% for a gas with 0% O2)

Nominal pump delivery: 6 l/min ; minimum delivery : 3,5 l/min

Air pressure variation: automatic correction by integrated absolute pressure sensor

Zero point and sensitivity: automatic compensation

Automatic pump standby

Automatic zeroing



## Options

- Portable test stand
- Qwerty keyboard
- NO kit
- Bluetooth option for Smoke Meter
- Bluetooth RPM and Oil temperature measurement via the EOBD diagnostics plug
- Bluetooth RPM via battery ripple / oil temperature



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