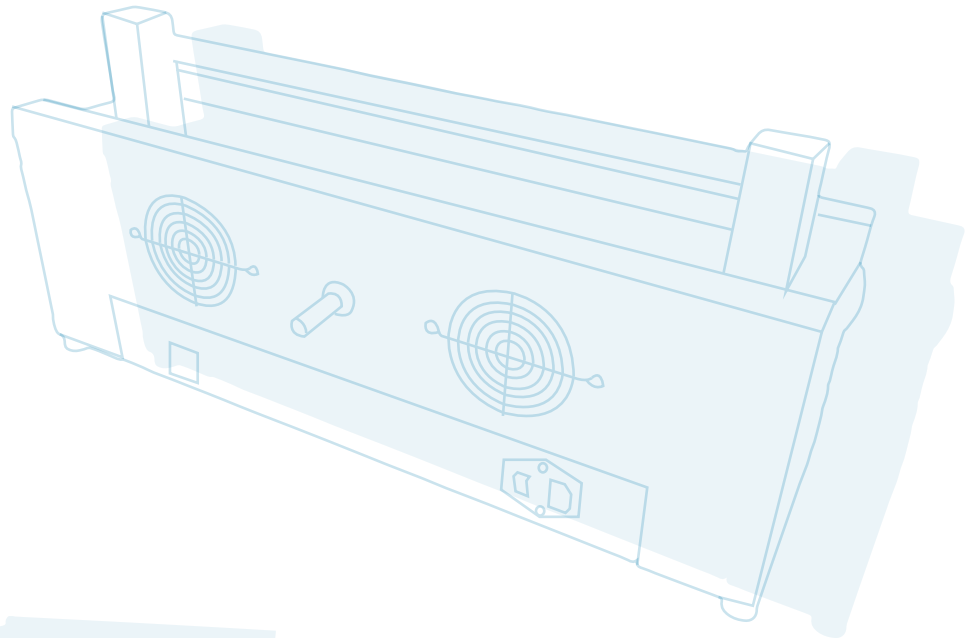


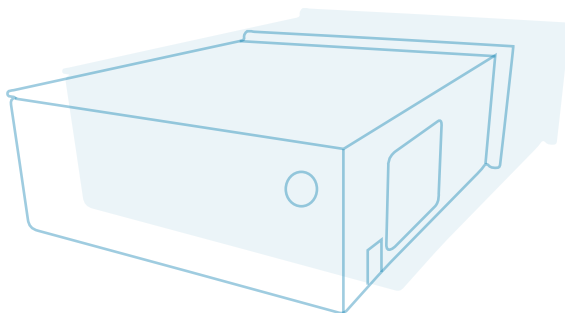


CONTROL VEHICULAR ARGENTINO

**TECHNICAL DATA  
EMISSIONS TESTER AND  
OPACIMETER**



**DGA 6000**



**DGA 6700**

# EMISSIONS TESTER DGA 6700

## Function:

- The model CVA-DGA 6700 offers unrivalled accuracy and a kind of performance that beats its predecessors, considered the most advanced technological systems, CVA provides you with a product with superior performance and reliability.
- The nondispersive infrared system measures gases, controls pneumatic components, communicates with the

host via RS-232 or USB2 and provides user-defined TTL ports, as well as analog inputs and rev counter that can be integrated to the data processing flow at user's convenience.



## Technical Data:

### Equipment calibration:

- Each CVA-DGA 6700 system model is individually calibrated to operate from 0 °C to 50 °C over the whole spectrum of specified concentrations. The results of this intense calibration process are stored within each system, providing the most precise analysis possible.

### High stability: fast warming up

- The CVA-DGA 6700 advanced optics and technology have virtually eliminated zero drift.
- Prior to this development, several zero settings were necessary during the first half hour of the operation for the most sensitive measurements.
- Now, the new CVA-DGA 6700 model is ready to meet all the specifications in just two minutes.

### Unique Optical Architecture:

- The optics of the CVA-DGA 6700 model incorporates focusing architecture by means of a precision beam. A concentrated infrared beam passes through a precision lens to a (replaceable and cleanable) gold-coated test cell, through which the involved gas escapes.
- The beam then passes through an optical assembly of highly specialized filters and an exclusive multiple element detector.

### Software Architecture:

- The software was developed with users' feedback and needs in mind and new releases will be distributed for free to users of all the CVA equipment.
- The control of key mechanisms such as gas flow solenoids and a test pump are provided, with the capacity to take orders from the host.

### QUALITY PERFORMANCE

CVA is committed to a TOTAL QUALITY CONTROL PHILOSOPHY. Every CVA product is manufactured under the most stringent control systems, and so the company ensures the highest level of quality for all its products.

## Technical Specifications

Measuring Method	Gas	Grading	Resolution	Accuracy	Precision	Response Time
Nondispersive Infrared (NDIR) on board	HC (both n-Hexane or propane)	0 to 15.000 ppm (n-Hexane)	1 ppm	1 to 2.000 ppm	} 4 pp m abs. o } 3% re	T90 & T10 < 2 seconds
				2.001 to 15.000 ppm	} 15 % r e	
				15.001 to 30.000 ppm	Not specified	
	CO	0 a 15%	0,001%	0,01 to 10,00%	} 0. 02 % abs. or } 3% re	T90 & T10 < 2 seconds
				10,01 to 15,00%	} 5 % r e	
	CO2	0 a 20%	0,01%	0,01 to 16,00%	} 0. 30 % abs. or } 3% re	T90 & T10 < 2 seconds
16,01 to 20,00%				} 5 % r el		
Electro-chemical sensors	NO	0 a 5.000 ppm	1 ppm	0 to 4.000 ppm	} 20 pp m abs. o } 4% re	T90 < 4.5 seg T10 < 5.5 seconds
				4.001 to 5.000 ppm	} 5 % r el	
	O2	0 a 25%	0,01%	0,01 to 2,00%	} 0. 10 % abs. o } 3% re	40 seconds

**Response Time:** response times are specified at a sample flow rate of 1 liter per minute through the CVA test cell or through the O2/Nox multiple.

**Information update speed:** 1 second .

**Warning up time:** 1 minute

**Operation Temperature:** 0° A 70° c (32° A 158° F). Non specified accuracy > 50°

**Operation Humidity:** 95% RH ( no condensation)

**Operation Altitude:** -300 a 3000 m (-1000 a 10000 feet)

**PC Communication serial:** asynchronous USB2 or RS232C – 19200 bps o 9600 bps (by omission 9200 bps)

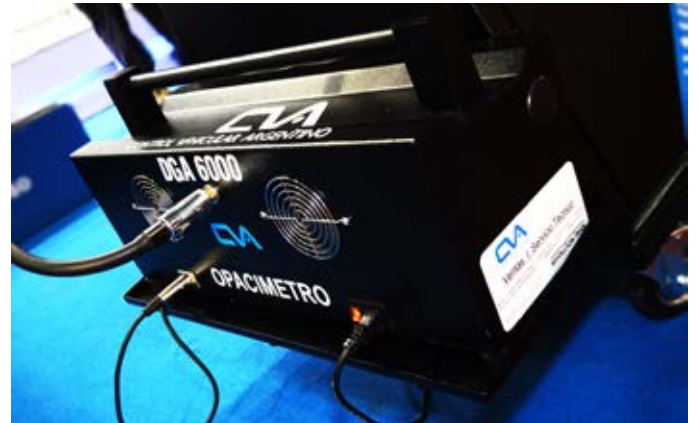
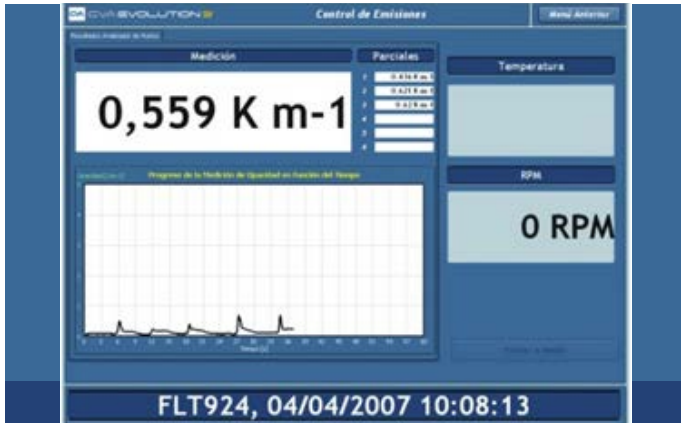
**Input power:** + 12 V average @ 12 VDC

## DGA6000 OPACIMETER

### Function:

The CVA-DGA 6000 model measures the quantity of light absorption produced by exhaust gases, and sends the results to the Control Console application. It has a chamber through which exhaust gases flow, with a light emitter and a sensor on both ends. The sensor enables the measure-

ment of the received luminous intensity and calculates the light absorption rate. The chamber also possesses an electronic valve to control gas passage, two fans activated according to the measurement stage, and a heating resistor to keep the chamber temperature at 100°C.



### Technical Data

**High stability:** fast warming up. The CVA-DGA 6700 advanced optics and technology have virtually eliminated zero drift.

**Software Architecture:** The software was developed with users' feedback and needs in mind and new releases will be distributed for free to users of all the CVA equipment.

**Quality Performance:** CVA is committed to a TOTAL QUALITY CONTROL PHILOSOPHY. Every CVA product is manufactured under the most stringent control systems, and so the company ensures the highest level of quality for all its products.

**Information updating speed:** 1 second.

**Operation Humidity:** 95% RH ( non condensation)

**Operation Altitude:** -300 a 3000 m (-1000 to 10000 feet)

**PC Communication:** Serial asynchronous USB2 or RS232C – 19200 bps or 9600 bps (by omission 19200 bps)

**Input power:** + 12 V average @ 12 VDC

The opacimeter performs the diagnosis by testing samples from partial gas flows entering the chamber, where software calculates an average behavior taking into account the acceleration peaks exerted on the engine to run the test.

## CONTROL CONSOLE

### Function:

- Viewing and printing of the results obtained from the diagnostic test benches, for example, alignment and/or suspension and/or brakes.
- Diagnostic test bench functions administration.

### Consisting of:

- Metal rack for the computer equipment.
- Communication card with operation indicating leds on the front panel.
- DB9 connection cable between interface and COM port in PC.
- Multiple connector for power supply.



### NOTE: Computer not included

The computer is not included in the equipment supplied, allowing the client to purchase it from their trusted supplier, in order to:

- Avoid problems regarding PC warranty.
- Avoid equipment down time owing to computer failure, which can be easily replaced
- Select monitor and printer settings according to client's liking (screen dimension, quality of printing).
- Offer the option to link this equipment to a preexisting network.
- **Windows 7 OS recommended (Windows 8 is in beta version and it has some inconveniences, until a new patch is available, previous versions are advisable).**

CVA recommends the following PC equipment setting (minimum), NEW with 12-month warranty ON SITE, i.e. the warranty is executed where the equipment is located. This equipment is certified for corporate use. They support usage with CVA equipment. In case you are interested, we can provide contact information.

### PC LENOVO THINKCENTRE Edge72 TOWER

Intel Pentium Dual-Core Processor G645, 2GB, 500GB 7200RPM S-ATA HDD, no diskette drive, PCI/PCIe Tower (3x3), Intel HD Graphics, DVDRW, Gigabit Ethernet, FREE DOS, 12 MONTHS WARRANTY.

LENOVO keyboard and mouse included



\* PC monitor also required.