

AGS-688

EXHAUST GAS ANALYSER FOR PETROL ENGINES



OIML R 99 - ISO 3930 CLASS 0
ELECTROMAGNETIC CLASS E2
DIR. 2004/22/EC - MID

AGS-688

is a gas analyser used to measure **gas concentrations** in the exhaust of petrol engines. It can be used both for exhaust check in **periodic mandatory tests** and **for ordinary service and maintenance operations** on petrol engines.

OPERATING MODES

The device samples the exhaust gas by means of its probe, supplied as a standard. By means of its simple keyboard, it is possible to perform all of the analyser's functions, and easily switch from the free measurement mode to the official exhaust test.

The **AGS-688** comes with 6 backlit LCD units, where test data are displayed. At the end of the exhaust gas test, it is possible to directly print the test results, or send them to a PC connected to the gas analyser. Connections to power supply, to RPM and temperature probes (with cable or wireless) to an external PC (via cable or wireless), are also present on the rear of the device.

NEW PNEUMATIC UNIT

The completely new **Water Separator Group** is injection moulded, in order to reduce the gas path's length and maintenance times.

The separation filter consists of two sections: a mechanical filter and a coalescent (condensation) one. A single axle, dual-head pump allows for continuous removal of the water which condenses into the separator.

AGS-688 has exhaust gas and fresh air (autozero) inputs, and also a dedicated inlet for calibration with reference gases.



AGS-688 PLUS FEATURES



The **AGS-688** was designed as a basic exhaust gas analyser; nevertheless, its wide range of optional accessories allows for a rich set of additional functions:

- An integrated RPM meter is available, which can support any of these choices: induction clamp, capacitive clamp or MGT-300 EVO.
- By adding a radio module in **AGS-688** expansion slot it is possible to connect the wireless MGT-300 EVO RPM meter.
- It is possible **AGS-688** to connect to a PC via RS232, USB or with a BT-100 Bluetooth® module.
- **AGS-688** allows for connection to the smokemeter through the omniBUS port: in this case the analyser behaves like a terminal to the smokemeter, where opacity of diesel exhaust can be displayed.

MEASURING RANGE

CO	FROM 0	TO 9.99	%vol	Res. 0.01
CO2	FROM 0	TO 19.9	%vol	Res. 0.1
HC HEXANE	FROM 0	TO 9999	ppmvol	Res. 1
O2	FROM 0	TO 25	%vol	Res. 0.01
NOX	FROM 0	TO 5000	ppmvol	Res. 1
LAMBDA	FROM 0.5	TO 5		Res. 0.001
(INDUCTIVE/CAPACITIVE CLAMP)	FROM 300	TO 9990	RPM	Res. 10
OIL TEMPERATURE	FROM 20	TO 150	°C	Res. 1

TECHNICAL FEATURES

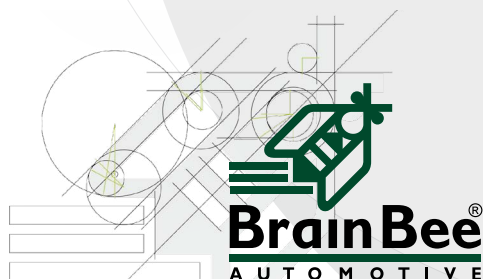
MEASURING BENCH	AMB2 SENSORS
MEASURING GAS SUCTION	4 L/MIN.
CONDENSED WATER PURGE	AUTOMATIC AND CONTINUOUS
TIGHTNESS TEST	SEMIAUTOMATIC
FLOW CONTROL	AUTOMATIC WITH MINIMUM FLOW ALARM
CONTROL OF SPENT O2 SENSOR	AUTOMATIC (< 5MV)
PROTECTIVE FILTERS FOR GAS/WATER PUMP HEADS,	EXTERNALLY MOUNTED FOR EASY SERVICE, WITHOUT REMOVAL OF OFFICIAL SEALS
AUTOMATIC COMPENSATION OF AMBIENT PRESSURE	850 ÷ 1060 KPA
CALIBRATION	WITH SAMPLE GAS BOTTLE
AUTOZERO	AUTOMATIC
HEATING TIME TO 20 °C	10 MIN. MAX
CO, CO2 E HC RESPONSE TIME	< 10 SEC.
O2 RESPONSE TIME	< 60 SEC.
PRINTER	INTEGRATED 24-COLUMN ETHERMAL PRINTER
DISPLAY	6 BACKLIGHTED LCD UNITS
CONNECTIONS	RPM READING VIA INDUCTIVE OR CAPACITIVE CLAMP
	PT100 (DIN43760) OIL TEMPERATURE PROBE INPUT
	RPM/OIL TEMPERATURE READING VIA 433 MHZ RADIO RECEIVER (OPTIONAL)
	SERIAL CONNECTIONS: PC VIA USB B (SLAVE MODE); PC VIA RS-232 (9600,N, 8, 1); PC VIA RS-485 NETWORK (9600,N, 8, 1)
	SOFTWARE PROGRAMMING/UPDATE VIA RS-232
	COMBI MODE AVAILABLE WITH OPA-100 SMOKEMETER
POWER SUPPLY	12 VDC TYP (11-15VDC)
POWER CONSUMPTION	1.5 A DC (3A WHEN PRINTING)
OPERATING TEMPERATURE	5 ÷ 40 °C
DIMENSIONS	434 X 190 X 291 MM
WEIGHT	5 KG

HOMOLOGATIONS

TYPE APPROVED MID (MEASURING INSTRUMENT DIRECTIVE)
2004/22/CE NMI 0122 B+D

CE MARKING SUPPLEMENTARY METROLOGY MARKING

FURTHER APPROVALS IN THE FOLLOWING COUNTRIES:
ITALY, SERBIA, RUSSIA



Brain Bee S.p.A.
Tel. +39.0521.954411
Fax +39.0521.954490
www.brainbee.com - contact@brainbee.com

