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 backlighted 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.
MEASURING RANGE

<table>
<thead>
<tr>
<th>Gas</th>
<th>From</th>
<th>To</th>
<th>%vol</th>
<th>Res.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>0</td>
<td>9.99</td>
<td></td>
<td>.01</td>
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<tr>
<td>CO₂</td>
<td>0</td>
<td>19.9</td>
<td></td>
<td>.1</td>
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<tr>
<td>HC Hexane</td>
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<td>9999</td>
<td>ppmvol</td>
<td></td>
</tr>
<tr>
<td>O₂</td>
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<td>25</td>
<td>%vol</td>
<td>.01</td>
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<tr>
<td>NOX</td>
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<td>5000</td>
<td>ppmvol</td>
<td>.1</td>
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<tr>
<td>Lambda</td>
<td>0.5</td>
<td>1.5</td>
<td>RPM</td>
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<tr>
<td>Oil Temperature</td>
<td>20</td>
<td>150</td>
<td>°C</td>
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</tbody>
</table>

TECHNICAL FEATURES

- MEASURING BENCH
- MEASURING GAS SUCTION
- Condensed Water Purge
- Tightness Test
- Flow Control
- Control of Spent O₂ Sensor
- Protective Filters for Gas/Water Pump Heads
- Automatic Compensation of Ambient Pressure
- Calibration
- Autozero
- Heating Time to 20 °C
- CO, CO₂ and HC Response Time
- O₂ Response Time
- Printer
- Display
- Connections
- Power Supply
- Power Consumption
- Operating Temperature
- Dimensions
- Weight

- AMB2 Sensors
- Automatic and Continuous
- SemiAutomatic
- Automatic with Minimum Flow Alarm
- Automatic (< 5MV)
- Externally Mounted for Easy Service, Without Removal of Official Seals
- 850 - 1060 KPa
- With Sample Gas Bottle
- Automatic
- 4 L/min.
- 10 Min. Max.
- < 10 Sec.
- < 60 Sec.
- 6 Backlighted LCD Units
- 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
- 12 VDC Typ (11-15VDC)
- 1.5 A DC (3A When Printing)
- 5 - 40 °C
- 434 x 190 x 291 MM
- 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

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