ATAL

Gas analyser module AT505

- Gas analyser module is a PC based a four (five) gas analyzer.
- Gas analyser module is intended for maintenance and inspection of spark ignition engines.
- The data are transmitted from Gas analyser module via RS232 into a PC for processing, storage and printing.
- Gas analyser module is a part of modular Multi-Diag system.
- MID certified

Gas analyser AT505 set includes

- Gas analyser module
- Sampling probe (hose + metal ending)
- Cable of communication AT505/1xRS232
- Power supply (adapted) with cable
- Software AT505
- RPM and temperature measurement is not included in the set
- Host computer (PC or Laptop) is not included in the set

Option

- BlueNet adapter (wireless BlueNet communication AT505)
- RT Module 3 (RPM and Temperature sensor)
- DIAG4 OBD BT (reader)
- NOx measurement based on electrochemical cell

Requirements for PC

- **Windows 7/8/10**
- **Free RS232 port**
  RS232-USB/Generic converter (AT119 4001) required for USB connection – see option

- IR Remote control
- Converter RSR232-USB / Generic

Specification

Measured quantity	Range	Resolution	Accuracy	Note
CO	0 - 10 % vol	0.01 % vol	0.03 % vol or 5 % RV	
CO_2	0 - 20 % vol	0.1 % vol	0.5 % vol or 5 % RV	
HC (hex)	0 - 2000 ppm vol	1 ppm vol	10 ppm vol or 5 % RV	
	2001 - 9000 ppm vol	10 ppm vol	5 % RV	
O_2	0 - 4 % vol	0.01 % vol	0.1 % vol or 5 % RV	
	4 - 21 % vol	0.1 % vol	5 % RV	
CO_{cor}	0 - 10 % vol	0.01 % vol		1
NO_x	0 - 5000 ppm vol	1 ppm vol		4
Lambda	0.500 - 2.000	0.001	ISO 3930	2

RT Module 3BT specification

Measured quantity	Range	Resolution	Accuracy	Note
RPM	400 - 2000 min-1	10 min-1	20 min-1	
	2001 - 9990 min-1		2 % RV	
Temperature	0 - 150 °C	1 °C	2°C	

RV = of reading value

Gas analyser module AT505 meets OIML R 99/ Class 0

- Supply voltage............................... 100 to 240 V AC, 47 to 63 Hz or 10 to 18 V DC
- Power input .... 40 W max.
- Warm-up time................................. 10 min max. (at 25°C)
- Communication interface.............................. RS232 (USB optional)
- Weight (Analyser module)............................ 6 kg max.
- Dimensions (Analyser module) .... 330 * 170 * 190 mm (depth * width * height)
- Operation temperature .... 5 to 40 °C
- Operation humidity .... up to 90 % non-condens.
- Atmospheric pressure .... 860 to 1060 hPa
- Storage temperature .... –10 to 45 °C

RV = of reading value
Note no:

1 - Calculation: $CO_{cor} = \dfrac{15 \cdot CO}{CO + CO_2}$

2 - Calculation: Brettschneider´s equation
3 - Only in version with RPM - Temperature module
4 - Option

Emission Devices