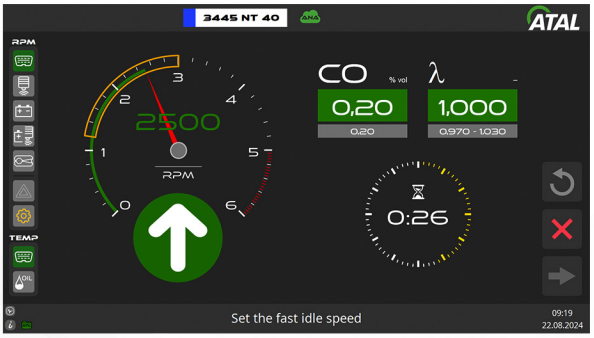
GAS ANALYSER
MODULE AT 508

- **Uses the ATAL NDIR optical bench using the most robust and advanced components of infrared optical technology**
- **The ATAL NDIR bench has an accuracy class of 00 (highest defined OIML accuracy class)**
- **The instrument has a built-in automatic condensate separator**
- **All-important internal components are protected against contact with contaminated condensatione**
- **Condensatione is strictly drained outside the instrument during the cleaning procedure of the condensatione storage tank and the sampling probe**

ATAL is preparing a completely new set of 3rd generation emission instruments for 2024. The AT 508 is a four (five) component exhaust gas analyzer that works in conjunction with a PC. ATAL's NDIR optical bench is used for the construction of the gas analyzer, which uses the NDIR method to measure CO, CO_2 and HC concentrations and electrochemical cells to measure O_2 and NO_x concentrations.

The design also exhibits high electromagnetic resistance and resistance to external mechanical and climatic influences. The described new design of the AT 508 significantly increases the reliability and long-term stability of the instrument and considerably extends maintenance periods. The new ATAL emission instrument designs are protected by several patent applications.



The **AT 508** analyzer module complies with OIML R 99/Class 00 and is MID certified (2014/32/EU)

- Supply voltage: 230 V AC / 24 V DC
- Power input: 60 W
- Start-up time: 10 min max. (at 25 °C)
- Communication interface: USB (wireless Bluetooth optional)
- Weight: 7kg
- Probe length: 6 m
- Dimensions: 380 x 250 x 150 mm
- Operating temperature: 0 to 50 °C
- Operating relative humidity: up to 90% non-precipitation
- Atmospheric pressure: 860 to 1060 hPa
- Storage temperature: -10 to 60 °C
- PC request: OS Win 10, 11

Specifications

MEASURED PARAMETER	RANGE	RESOLUTION	MEASUREMENT ERROR
CO	0 - 10 % vol	0.01 % vol	0.02 % vol or 5% RV
CO_2	0 - 20 % vol	0.1 % vol	0.3 % vol or 5 % RV
$HC_{(hex)}$	0 - 10000 ppm vol	1 ppm vol	4 ppm vol or 5% RV
O_2	0 - 4 % vol	0.01 % vol	0.1 % vol or 5 % RV
	4 - 25 % vol	0.1 % vol	5 % RV
CO_{cor}	0 - 10 % vol	0.01 % vol	
NO_x	0 - 5000 ppm vol	1 ppm vol	
LAMBDA	0.500 - 2.000	0.001	ISO 3930 OIML R 99