

OPACIMETER MODULE AT608

- ✓ ATAL unique optical bench with a high power light source
- ✓ Uses forced extraction of the measured smoke sample by a built-in pump
- ✓ Unique smoke flow system in the measuring chamber eliminates contamination of the measuring optics
- ✓ AT608 uses a very lightweight 6 m long heated sampling probe
- ✓ 6 m long sampling probe is universal for cars and trucks
- ✓ AT608 has a built in probe cleaning procedure before starting to measure each vehicle

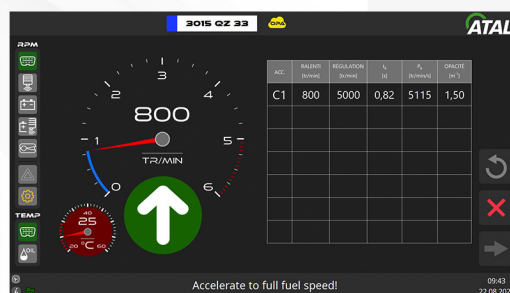


Opacimeter uses a internal pneumatic arrangement with forced smoke sampling from the vehicle exhaust. This unique approach allows the use of a very lightweight heated sampling probe with a small diameter and length comparable to a gas analyser (typically 6 m). This arrangement provides additional advantageous features such as automatic periodic probe clearance checking and probe cleaning prior to each vehicle measurement.

The AT608 measuring optical chamber uses a unique smoke sample flow system that minimizes contamination of the measuring chamber optical system, especially by condensation present in the exhaust gas.

- Module power supply 230 V AC / 24 V DC
- Power consumption 250 W
- Measuring cuvette temperature 73 °C
- Effective length of the cuvette 200 mm
- Ramp-up time 10 min (at 25 °C)
- Sampling probe (heated) length 6 m
inlet diameter 10 mm
outer diameter 20 mm
heated to 50 °C
- Operating temperature 0 to 50 °C
- Operating humidity 0 to 90 %
- Storage temperature -10 to 60 °C
- Weight 7 kg
- Communication interface USB (wireless
Bluetooth optional)
- PC request OS Win 10, 11

The described new design of the AT608 significantly increases the reliability and long-term stability of the instrument and significantly extends maintenance periods. New ATAL emission device designs are protected by several patent.



Specifications

MEASURED PARAMETER	RANGE	RESOLUTION	MEASUREMENT ERROR
Absorption coefficient (k)	0 - ∞ m ⁻¹	0.01 m ⁻¹	± 0,15 m ⁻¹ (in the range of 0,0 to 2,5 m ⁻¹) ± 0,30 m ⁻¹ (in the range 2,5 to 4,0 m ⁻¹)
Opacity (N)	0 - 100 %	0.1 %	± 2 % Absolute