



OPACIMETER MODULE AT 608

- ✓ 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
- ✓ Instrument uses a very lightweight 6 m long heated sampling probe
- ✓ 6 m long sampling probe is universal for cars and trucks
- ✓ Instrument has a built in probe cleaning procedure before starting to measure each vehicle

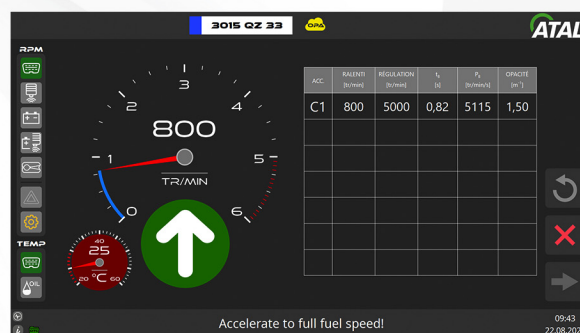


The AT 608 uses a unique internal pneumatic arrangement with forced smoke sampling from the vehicle exhaust. This unique approach allows the use of a very lightweight heated sampling probe with a small diameter and length comparable to a gas analyzer (typically 6 m). This arrangement provides additional advantageous features such as automatic periodic probe clearance checking and probe cleaning prior to each vehicle measurement.

The AT 608 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 of the sampling unit 250 W
- Measuring cuvette temperature 73 °C
- Effective length of the cuvette 200 mm
- Ramp-up time 10 min (at 25 °C)
- Sampling probe 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 7kg
- Communication interface USB (wireless Bluetooth optional)
- PC request OS Win 10, 11

The described new design of the AT 608 significantly increases the reliability and long-term stability of the instrument and significantly extends maintenance periods. New ATAL emission instrument designs are protected by several patent applications.



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