

Opacimeter module AT605

- The method is based on measuring the attenuation of light beam in a cell filled with the measured smoke.
- Both steady-state and acceleration measurements are possible.
- The acceleration test (obligatory during the emission inspection) registers the idle and overspeed revolutions, acceleration time and peak opacity.



The AT605 smoke meter assembly includes

- LCS 2400 sampling unit with portable stand
- Software AT605
- Sampling probe diameter 10 mm
- Connection cable AT605
- RPM and temperature measurement is not included in the set
- Host computer (PC or Laptop) is not included in the set



Optional accessories

- RT Module 3 (RPM and Temperature Sensor)
- Multi-Diag (RPM and Temperature measurement on OBD system)
- Sampling probe diameter 27 mm (for the vehicle with exhaust pipe up to diameter 70 mm)
- IR remote control
- Converter RS232-USB / GENERIC

Requirements for PC

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

Specification

Measured quantity	Range	Resolution	Accuracy
Absorption coefficient (k)	0 – ∞ m ⁻¹	0,01 m ⁻¹	± 0,15 m ⁻¹); ± 0,30 m ⁻¹)
Opacity (N)	0 – 100 %	0,1 %	± 2 % absolute
Acceleration time	0 – 99,99 s	0,1 s	± 0,2 s
Acceleration measuring according to directive ECE R24			

Option - RT module 3

Measured quantity	Range	Resolution	Accuracy
Temperature	0 – 150 °C	1 °C	± 2 °C
RPM	400 – 2000 min ⁻¹ 2001 – 9990 min ⁻¹	10 min ⁻¹	± 20 min ⁻¹ ± 2 % ČH

RV = of read value ^{*)} in range 0,0 to 2,5 m⁻¹
^{**)} in range 2,5 to 4,0 m⁻¹

Input Power (sampling unit) 230 V AC +10% / -15%; 0,78A, 50/60 Hz
Sample cell Temperature 75 °C ±1°C
Effective Optical Path Length (EOPL) 364 mm
Startup time 15 min 20°C

Operation Temperature +5 to +40°C
Operation Humidity 0 to 95 % RH
Storage Temperature -32 to 50 °C

Communication interface RS232 (USB optional)

Weight (sampling unit) 4,5 kg max.
Dimensions (sampling unit) 235 x 380 x 90 mm max.
(height x width x depth)