

AVL DITEST SMOKE 2000

SECOND GENERATION OPACIMETERS



FUTURE SOLUTIONS FOR TODAY

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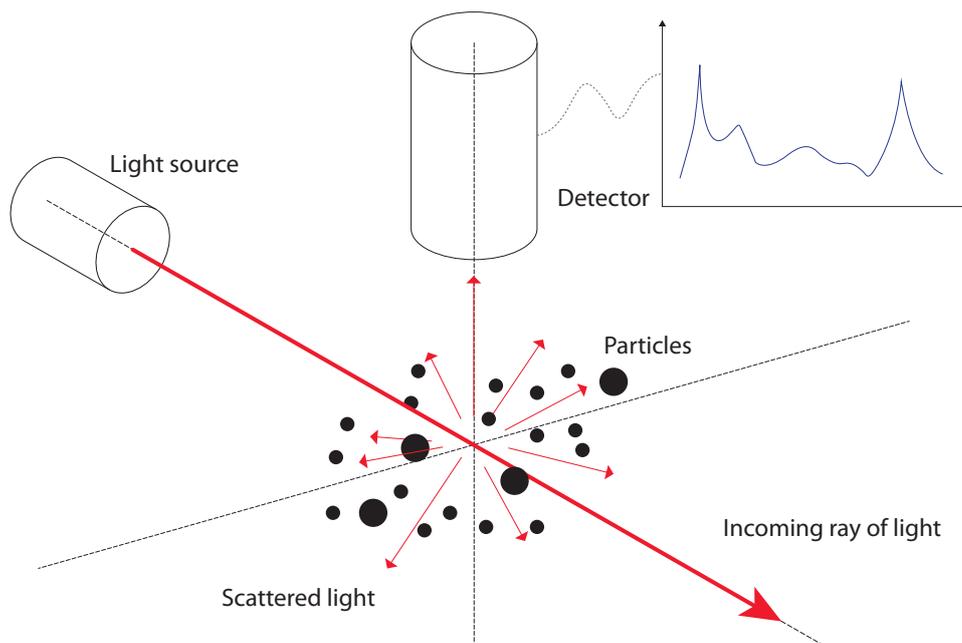


The measurement method of opacity measurement and display of opacity currently used in exhaust emission tests is from the 80ies when diesel vehicles still visibly emitted smoke. Today, these vehicles produce the same amount of soot, which, however, due to the high injection pressures is finely dispersed and invisible. The size of these fine particles varies between 10 to 400nm. Particle filters collect these respirable parts; they are burnt in a regeneration process leaving ash. In these modern vehicles equipped with exhaust gas purification systems the opacity cannot be measured by means of conventional opacimeters. Faulty exhaust gas purification systems or systems not working properly are not detected during exhaust gas tests with the measurement method currently in use.

This is where the new measurement method takes effect, 1,000 times more sensitive than the devices currently existing in the field, the new technology working according to the scattered light method delivers very accurate and reliable particle mass measurements. Due to the current legislation, the opacity (%) or the opacity coefficient (m^{-1}) has to be indicated also with this new measurement method working according to a different measurement principle.

BENEFITS:

- Measuring chamber with sturdy metal housing, rubber protection - suitable for use in a workshop
- Scattered light method - future proof
- High sensibility scattered light measurement chamber - resolution $0.001 m^{-1}$
- Add-on option for DiX series
- Interfaces via USB, RS 232, Bluetooth



Technical specifications AVL DITEST SMOKE 2000

Measurement principle:	Scattered light method	Measurement limit:	$0,010 m^{-1}$ (1 mg/m^3)
Exhaust gas removal:	By means of measurement probe, exhaust principle with pump	Maximum measurement value:	$3,000 m^{-1}$
Measurement volume:	approx. 2 liters/minute	Dimensions (LxWxH):	390 x 200 x 220 mm
Resolution:	$0,001 m^{-1}$ (0,1 mg/m^3)	Weight:	ca. 5,4 kg
Zero drift:	$0,001 m^{-1}$ (0,1 mg/m^3)	Interfaces:	USB 2.0, RS232 und Bluetooth

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