

LPA

High Resolution Smoke Meter



The LPA is a high resolution diesel smoke meter. The European Commission requires that new diesel vehicles comply with the European EURO 5 and 6 norm to reduce smoke particle emission in order to improve the air quality. Existing smoke meters have a resolution that is too low to measure emission levels of EURO 5 and 6 diesel vehicles. To the contrary, the high resolution of the LPA allows it to measure very low emission levels and detect DPF malfunctioning, or other engine systems failures that cause higher emissions.

Modern diesel vehicles have advanced exhaust systems that possess a DOC, wall-flow DPF and SRC to reduce up to 99.9% of the harmful emissions. To detect defects in one of these components, a measuring range of 0.5 m-1 in high resolution is required. No problem for the LPA.

The LPA is also a partial flow smoke meter. Reliable, robust and dynamic, following each acceleration without any problem. The LPA measures according to the light absorption principle. Equipped with an InGaN led, an accurate heating system to condition the smoke chamber and various sensors, the LPA ensures a precise measurement. The full aluminum chamber and other high quality components ensure a trouble free operation for passenger cars, light commercial vehicles and trucks.

Specifications

Dimensions:	420 x 250 x 450 mm (W x D x H)
Weight:	8 kg
Power:	90 - 250 Vac, 50 - 60Hz, Max. 200 W
Ambient temperature:	-10°C - 40°C
Measuring range:	0,00 - 99,99% HSU 0.000 - 9.999 m-1 0.0 - 850 mg/m3
Resolution:	0,01% HSU 0.001 m-1 0.1 mg/m3
Zero stability:	0.003 m-1
Static accuracy (filter):	<0.5%
Sample probe:	2 mtr, Ø10 mm (passenger cars) 3.5 mtr, Ø27 mm (trucks)
Connectivity:	RS232, USB and Bluetooth

Optional:



27mm LKW sample probe



Calibration filter



Tablet Version