SSA 50 Portable

The SSA 50 Portable is a state-of-the-art, professional light absorption partial flow opacimeter for emission tests of diesel vehicles.

It's specially designed for intensive use and single person operation, such as vehicle inspection stations or in professional workshops. The vehicle test time is less than 3 minutes.

The SSA 50 Portable model is specially designed for use where the analyzer must be easily transported such as road side vehicle inspections or part of a police vehicle's test equipment.

Functionality
The program includes two test modes: continuous gas sampling - full load/part load and free acceleration measurement. The values are displayed on the alphanumeric LCD remote.

-Automatic zeroing
-Linearity test

The acceleration test program can be customized according to country specifications and legislation.

Measurement
The diesel smoke opacity is measured in smoke density % (also known as Hartridge HSU units) as well as in absorption coefficient k (m^{-1}). The readings of the k and % opacity values are displayed simultaneously.

Flexible design
The flexible design with a small separate smoke head makes it easy to use on all sizes of vehicles such as cars, trucks, busses and others. The cable length between the smoke unit and the main unit is 10 m (or Bluetooth) and the LCD remote control cable is 5 m.

Standards
The SSA 50 complies to ISO 11614 and 72/306/EEC.

Accessories
The analyser can be equipped with a built-in printer and different RPM and Oiltemp options. Optionally the main unit can communicate with the smoke unit with Bluetooth

Warranty 12 months.

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	Range	Resolution	Accuracy
Opacity	0-99.9%	0.1%	2%
K-value	0-16.06 m^{-1}	0.01 m^{-1}	2% (calculated on opacity value)
RPM	0-9999 rpm rpm/min	1	
Oiltemp.	0-160 $^{\circ}$C	1 $^{\circ}$C	

Optical path length	215 mm single path, corrected to 430 mm according to ISO11614.
Smoke chamber	85 $^{\circ}$C heated
Light source	Green LED 565 nm
Detector	Silicon photo diode
Sample probe	1.4 m silicone hose with stainless steel probe
External connections	RS 232 för PC-connection, I2C extended auxiliary port
Warm-up time	Approx. 3 min.
Operating conditions	
Temp	0 $^{\circ}$C till +40 $^{\circ}$C
Relative humidity	up to 90%
Atm. pressure	750 - 1 100 mBar
Pressure range	0-10 kPa
Power supply	10-30 VDC, 6A or 230 VAC with external power source
Size sample unit (WxHxD)	375 x 180 x 75 mm (excl. stands)
Weight sample unit	Approx. 5.5 kg (incl. stands)
Size main unit (WxHxD)	296 x 192 x 70 mm
Weight main unit	Approx. 1.3 kg

Options

RPM	Battery voltage measurement
	Piezo electric system incl. 6 mm clamp
	RPM/OILTemp OBD, values through vehicle's OBD diagnostic socket
Bluetooth	Wireless communication between main unit and smoke meter
Hose	5 m long hose electrically heated

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