

testo 340

Diesel Exhaust Measurement - 4 sensor flue gas analyser



PREFERRED INSTRUMENT FOR TESTING DIESEL ENGINE EXHAUST GASES

The testo 340 Flue Gas Analyser is an easy-to-use instrument fitted with four gas sensors.

O₂

CO

NO

NO₂

CO₂*

NO_x*

Compact design combined with reliable engineering makes testo 340 the ideal analyser for commissioning, service and maintenance work as well as measurements for monitoring purposes; Industrial burners, Stationary industrial engines, Gas turbines & Thermal processes.

- measurement range extension for Single dilution slot or optional for all sensors
- pressure-/ flow-measurement standard in every testo 340
- automatic flow-controlled gas pump
- 18 standard fuels and additional 10 user-defined fuels – Fuel data is calculated using software easyEmission

testo 340 is the ideal, versatile hand-held analyser for industrial flue gas analysis and emissions the 340 offers benefits such as: The unique measuring range extension feature facilitates unlimited measurements even at high gas concentrations.

The testo 340 Diesel Kit includes:

- testo 340 flue gas analyser equipped with O₂, CO, NO, NO₂ sensors, CO₂ (calculated from O₂)
- Motor probe with thermocouple (335mm long, T.max. + 1,000°C)
- Power supply
- Protective carry case
- Bluetooth



KEY FEATURES

- Direct measurement of 4-gases simultaneously
- CO range extension 50,000 PPM
- Automatic sensor protection range extension
- Smart phone App compatible



*NO_x and CO₂ figures are calculated.

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SPECIFICATIONS Specifications subject to change without notice

Differential Pressure - Piezoresistive		Measuring range	Accuracy	Resolution
		-200 to 200 hPa	±1.5 % of mv (Remaining Range) ±0.5 hPa (-49.9 to 49.9 hPa)	0.1 hPa
Absolute Pressure		Measuring range	Accuracy	Resolution
		+600 to +1150 hPa	±10 hPa	1 hPa
Flue gas	Measuring range	Accuracy	Resolution	Reaction time t_{90}
O ₂	0 to 25 Vol.%	±0.2 Vol.%	0.01 Vol.%	< 20 s
CO (with H ₂ -compensation)	0 to 10000 ppm	±10 % of mv (2001 to 10000 ppm) ±10 ppm or ±10 % of mv (0 to 200 ppm) ±20 ppm or ±5 % of mv (201 to 2000 ppm)	1 ppm	< 40 s
CO low (with H ₂ -compensation)	0 to 500 ppm	±5 % of mv (Remaining Range) data corresponds to 20°C ambient temperature. Additional temperature coefficient 0.25% of reading/K. ±2 ppm (0 to 39.9 ppm)	0.1 ppm	< 40 s
CO ₂ (calculated from O ₂)	0 to CO ₂ max	±0.2 Vol.%	0.1 Vol.%	< 40 s
NO	0 to 4000 ppm	±10 % of mv (2000 to 4000 ppm) ±5 ppm (0 to 99 ppm) ±5 % of mv (100 to 1999 ppm)	1 ppm	< 30 s
NO low	0 to 300 ppm	±2 ppm (0 to 39.9 ppm) ±5 % of mv (Remaining Range)	0.1 ppm	< 30 s
NO ₂	0 to 500 ppm	±10 ppm (0 to 199 ppm) ±5 % of mv (Remaining Range)	0.1 ppm	< 40 s

To avoid absorption, a maximum measurement duration of 2 hours should not be exceeded.

GENERAL TECHNICAL DATA

Weight	960 g	Hose length	max. 7.8 m (corresponds to two probe hose extensions)
Dimensions	283 x 103 x 65 mm	Max. neg. press./flue gas	-200 mbar
Operating temperature	-5 to +50 °C	Max. pos. press./flue gas	50 mbar
Protection class	IP40	Pump flow	0.6 l/min (regulated)
Connectable probes	1 x flue gas probe; 1 x temperature probe; 1 x differential pressure	Interface	Bluetooth®; USB; IR/IRDA interface; gas outlet; Mains connection; probe input/ probe inputs; Differential Pressure
Battery life	> 6h	Storage temperature	-20 to +50 °C
Display size	160 x 240 pixels		
Display type	graphic Display		
Power supply	Battery block 3.7 V / 2.4 Ah, Mains unit 6.3 V / 2 A		



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