

Dräger EM200-E Diesel Exhaust Measurement

The Dräger EM200-E is an electronic multigas instrument with an internal sampling pump. It can precisely determine CO and NO_x content in undiluted exhaust gases of diesel engines. The internal ambient pressure sensor allows the immediate use without preceding calibration in underground mines.



Benefits

Shock and impact resistant housing

The Dräger EM200-E has a shock resistant and high impact body. Easy handling and advanced technology allow precise and fast results of measurement. The powerful battery maintains a high operating time of typically ten hours.

Precise measurement of CO and NOx content in exhaust gases from diesel engines

One multigas analysis instrument to be used for precise testing of diesel engines in underground mining applications: regulation compliance (in some countries maximum emissions from engines are regulated to be able to set ventilation rates), health risk (a build up of these gases can be dangerous to individuals; CO, NO and NO₂ have regulated exposure concentrations), operating costs (increases in CO/NOx output can indicate a problem with the engine or the scrubbers resulting in reduced fuel efficiency), reduce downtime (using these values as pre-indicator for engine breakdowns can enable preventive maintenance instead of reactive measures and loss of production).

Documentation

Saved data can be locally documented or transferred to the PC.

High precision measurement in different depths

An internal pressure sensor automatically compensates ambient pressure influences in different depths. The sensor allows the Dräger EM200-E to function at 4,000 m (2.5 mi) below or above sea level. This offers location flexibility so the engines are not required to go to the workshop as a "fixed" testing area.

Accessories



D-544-2016

Vehicle exhaust probe

For measuring exhaust gases.



D-546-2016

Fabric tube (connects the exhaust probe to the instrument)



D-541-2016

Equipment case



D-542-2016

Plug-in charger

100 – 240 V

Accessories



D-543/2016

Infrared printer

Technical Data

Display	Liquid crystal graphic display, backlit, manual adjustable
Interface	USB for PC interface, infrared for printer, no multifunction jack for additional instruments
Operating temperature	5 to 40 C (41 to 104 F)
Storage temperature	-20 to 50 C (-4 to 122 F)
Power supply	Internal: high power battery, 4.8 V External: plug-in charger
Operating capacity	Typically 10 hours
Gas extraction	Membrane pump for gas sampling
Gas processing	Integrated gas conditioning cartridge with condensate trap and particle filter
Weighting	1100 g (2.4 lb)
Dimensions	195 x 165 x 75 mm (7.7 x 6.5 x 3 in) (H x W x D)

Display	Principle of measurement	Measuring range	Resolution	Accuracy
CO, carbon monoxide	El.-chem. sensor	0 ... 8,000 ppm	1 ppm	0 ... 200 ppm: ± 10 ppm or 10 % of MV ³
				200 ... 2,000 ppm: ± 20 ppm or 5 % of MV ³
				2,000 ... 8,000 ppm: ± 100 ppm or 10 % of MV ³
NO, nitric oxide	El.-chem. sensor	0 ... 2,000 ppm	1 ppm	0 ... 600 ppm: ± 10 ppm or 5 % of MV ³
NO ₂ , nitrogen dioxide	El.-chem. sensor	0 ... 200 ppm	1 ppm	0 ... 100 ppm: ± 5 ppm or 5 % of MV ³
NO _x , oxides of nitrogen	El.-chem. sensor	0 up to 2,000 ppm	1 ppm	
Barometer	Piezo-resistive	800 ... 1,700 hPa	1 hPa	

MV³ = Measuring Value

Notes

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CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

Manufacturer:

Dräger MSI GmbH
Rohrstr. 32
58093 Hagen, Germany

USA

Dräger, Inc.
7256 S. Sam Houston Parkway W.
Suite 100
Houston, TX 77085
1 800 4DRAGER
(1 800 437 2437)

Locate your Regional
Sales Representative at:
www.draeger.com/contact

