



# EM200plus-E

## Diesel Exhaust Measurement

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The Dräger EM200-E is an electronic multigas instrument with internal sampling pump. It precisely determines CO and NO<sub>x</sub> content in undiluted exhaust gases of Diesel engines. The internal ambient pressure sensor allows the immediate use without preceding calibration in underground mines.

## Benefits

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### **Shock and impact proof housing**

The Dräger EM200plus-E has an impact and shockproof body. Easy handling and an excellent technology allow precise and fast results of measurement. The high power battery affords a high operating time of typically 10 hours.

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### **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 NO<sub>2</sub> 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).

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### **Documentation**

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

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### **High precision measurement in all different depths**

An internal pressure sensor automatically compensates ambient pressure influences in different depths. Therefore engines do not have to go to the workshop as a “fixed” testing area. The Dräger EM200-E comes to the engine. No matter where it is located: 4,000 m below or 4,000 m above sea level.

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## Accessories



5600362

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### Vehicle exhaust probe

For measuring exhaust gases



5630051

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### Fabric tube, per meter



5600904

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### Equipment case IP67 EM200 line



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### Plug-in charger

100 - 240 V

## Accessories



5601048

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### **Printer MSI BTLE/IR**

Instantly documents all values and results



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### **Printer paper**

Packing unit 5 rolls

## Related product groups

5600822



### **Dräger EM200plus/plus-i**

The Dräger EM200plus-f and EM200plus-i are your partners for measuring and testing heating and large industrial boilers. The series performs measuring tasks such as flue gas temperature, NOx measurement, SO2 measurement, the determination of the combustion efficiency or CO measurement up to 30,000 ppm just as reliably as solid fuel measurement or the calculation of flow velocities (versiondependent).

5600739



### **Dräger VARIOx-2**

In addition to adjustment tasks, the single-channel device can optimise combustion for energy conservation or short-term emission measurement. It reviews limits and is suitable for process analysis.

## 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 °C ... +40 °C
Storage temperature	-20 °C ... +50 °C
Power supply	Internal: high power battery, 4.8 V 2,000 mAh, indication of state of charge
Operating time	Up to 10 h
Gas extraction	Membrane pump for gas sampling
Gas processing	Integrated gas conditioning cartridge with condensate trap and particle filter
Weight	1,100 g
Dimensions	195 mm x 165 mm x 75 mm (H x W x D)

Display	Principle of measurement	Messbereich	Auf- lösung	Genauigkeit
CO, carbon monoxide	El.-chem sensor	0 ... 8,000 ppm	1 ppm	0 – 200 ppm: ± 10 ppm or 10 % of MV <sup>3</sup> 200 – 2,000 ppm: ± 20 ppm or 5 % of MV <sup>3</sup> 2,000 – 8,000 ppm: ± 100 ppm or 10 % of MW <sup>3</sup>
NO, nitric oxide	El.-chem. sensor	0 ... 2,000 ppm	1 ppm	0 ... 600 ppm: ± 10 ppm or 5 % of MV <sup>3</sup>
NO <sub>2</sub> , nitrogen dioxide	El.-chem. sensor	0 ... 200 ppm	1 ppm	0 ... 100 ppm ± 5 ppm or 5 % of MV <sup>3</sup>
NO <sub>x</sub> , oxides of nitrogen	El.-chem. sensor	0 ... 2,000 ppm	1 ppm	
Barometer	Piezo-resistive	800 – 1,700 hPa	1 hPa	

MV<sup>3</sup> = Measuring Value

# Notes

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