

## MSI EM200-E Diesel Exhaust Gas Tester

The MSI EM200-E is an electronically multiple channel measuring instrument. It allows exact measurements of undiluted Diesel engine exhaust gases in underground mines. To save people and engines, a quick and easy testing of carbon monoxide and oxides of nitrogen is a must.



ST-6813-2005

### Characteristics

- Integrated pump for fast response
- Data memory for generating comprehensive proofs
- Data transfer to PC in real-time
- Integrated infrared transmitter
- Gas conditioner, shock-resistant
- Large illuminated display
- Simultaneous reading of gas constituents to be measured
- Removal of water from sample gas
- Filtration to remove diesel particulates
- Early warning when calibration is due
- Extremely shock-resistant and shock-proof by fixation of components in the inner body out of EPP-foam
- Magnetic plate

### Measurements

- Carbon monoxide, CO
- Oxides of nitrogen, NO<sub>x</sub>
- Nitrogen monoxide, NO
- Nitrogen dioxide, NO<sub>2</sub>
- Internal absolute pressure sensor for compensating pressure influences

### Sequenced test conditions

- Idle
  - High idle
  - Load (T/C stall)
- With input of rpm

### Applications

The MSI EM200-e is adequate for following applications:

- Testing of Diesel engines in underground mines
- Engine combustion optimisation for less emissions
- Spot checking of emission points
- Troubleshooting



ST-20002E-2009

### MSI EM200-E:

Allows exact measurements of Diesel engine exhaust gases in underground mines.

## TECHNICAL DATA

Display	LC-display, graphic, backlit, manually adjustable
Interface	USB for PC-interface, infrared for printer, multifunction connector for additional equipment
Operating temperature	+ 5 °C up to 40 °C
Storage temperature	- 20 °C up to 50 °C
Electric power supply	Internal NiMH battery, 4.8 V 2,000 mAh, display of battery charge condition, charger
Gas extraction	Membrane pump for gas probe
Gas processing	Integrated gas conditioning cartridge with condensate trap and particle filters
Weight	1,100 g
Dimensions	165 mm x 195 mm x 75 mm (H x W x D)

Display	Principle	Range	Resolution	Accuracy
CO, carbon monoxide	El.chem. sensor	0 up to 2,000 ppm	1 ppm	± 3 % of mr*
NO <sub>x</sub> , oxides of nitrogen		0 up to 2,000 ppm	1 ppm	± 3 % of mr*
NO, nitrogen monoxide	El.chem. sensor			
NO <sub>2</sub> , nitrogen dioxide	El.chem. sensor			
Air pressure	Piezo-resistance	800...1,700 hPa	1 hPa	

mr\* = measuring range

## ORDER INFORMATION

See price list

# Dräger

MSI Measurement · Safety · Information



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*Are you interested in flue gas analysis?*  
 The MSI EM200 is extremely versatile in application for industrial processes. The measuring instrument is available in different versions. Get informed!