

Dräger MSI 150 EURO-E Diesel Exhaust Tester



ST-6584-2005



ST-6628-2005

Dräger MSI EURO-E:
With vehicle exhaust probe.

The Dräger MSI 150 EURO-E is the ideal instrument for testing Diesel engine exhaust gases in underground mines. To save the engines, a quick and easy testing of carbon monoxide and oxides of nitrogen is a must, especially when the engines are in load condition. The internal absolute pressure sensor compensates for pressure influences from – 4000 m below sea level up to + 4000 m above sea level.

Typical applications

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

Real-time measurement

- Internal pump
- Continuous display
- Continuous data transmission
- Variety of probes
- Undiluted sample

Three tests

- Idle
- High idle
- Load condition
- With input of rpm

Everywhere

- Australia, Canada, South Africa, 4000 m below sea level
- Andes, Chile, 4000 m above sea level

Advanced electrochemical sensor design

Long sensor life – unlimited number of measurements within up to 3 years.

Sturdy aluminum case covered with PVC foil and rubber housing

Durable, easy to handle, whether climbing a ladder or in tight areas.

LCD with backlight

Easy to use in poor lighted areas.

Self diagnostic test at start-up

Internal diagnostic test routine checks all equipment functions; should a problem occur, an indication of malfunction will be displayed. By these means, an accurate and reliable sample is assured, even before the measurement has started.

Communication ports

IR interface for wireless downloading measurement reports to a printer and serial port (similar RS232) for transmitting stored or real-time data to a connected PC with date and time stamp.

High reliability and availability

Typical span drift of sensors used is less than 5 % per year.

Lower service/maintenance cost

Dynamic calibration to a reference gas.

Suitability

Designed in co-operation with partners in the field of metalurific mines, it is not Ex-approved, but can typically be operated in service areas in most mining applications.

TECHNICAL DATA

Display	LC-display; 4-lines, 16 characters each; alphanumeric, backlit
Interface	Serial, 2,400 up to 115,200 baud
Operating temperature	+ 5 °C to + 40 °C
Storage temperature	- 20 °C to + 50 °C
Power supply	Maintenance-free, sealed lead accumulator, 6 V / 1.2 Ah, capacity up to 8 h, battery monitoring with charge status, charger
Gas sampling	Membrane pump for gas sampling
Gas conditioning	Integrated gas conditioning cartridge with condensate trap and particle filters
Dimensions	190 x 180 x 80 mm (H x W x D)
Weight	1,850 g

Display	Principle	Range	Resolution	Accuracy
T-low	PTC	- 20 to + 100 °C	0.1 °C	≤ 1 °C
T-high	Thermocouple	0 to 1,000 °C caution: probe	1 °C	0 to 250 °C: ≤ 2 °C 250 to 400 °C: ≤ 4 °C
CO, carbon monoxide	El. chem. Sensor H ₂ -compensated	0 to 4,000 ppm	1 ppm	0 to 2,000 ppm: ± 20 ppm or < 5 % of MV
NO, nitrogen monoxide	El. chem. Sensor	0 to 2,000 ppm	1 ppm	± 10 ppm or < 5 % of MV
NO ₂ , (option) nitrogen monoxide	El. chem. Sensor	0 to 200 ppm	1 ppm	± 5 ppm or < 5 % of MV
Ambient pressure	Semiconductor	800 to 1,700 hPa	1 hPa	

MV = Measured Value

ORDER INFORMATION

Dräger MSI 150 EURO-E, vehicle exhaust analyser	56 00 678
Option NO ₂ -channel 0 to 200 ppm	56 10 516
Probes and additional accessories	s. price list



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