

# Dräger MSI VARIOx O<sub>2</sub>, CO<sub>2</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub>



ST-6563-2005

Dräger MSI VARIOx stands for a complete family of electronic single gas analysers for the determination of gas concentrations from flue gases of combustion and industrial processes.



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**Dräger MSI VARIOx:**  
Single gas analyser.

It is available in seven versions to measure O<sub>2</sub>, CO<sub>2</sub>, CO, NO<sub>2</sub> or SO<sub>2</sub>. All versions are equipped with an internal pump that pulls a gas sample via a gas conditioning cartridge through an extraction probe and leads it into a sensor chamber to an electrochemical sensor. The gas concentration is displayed in real-time and can be transmitted to a PC (except Dräger MSI VARIOx CO<sub>2</sub>).

#### Typical use

- CO<sub>2</sub> from auxiliary heaters and boilers
- CO from LPG forklift trucks
- CO from boilers and boiler rooms
- CO, SO<sub>2</sub> and NO<sub>2</sub> from industrial emissions

#### Typical applications

- Combustion optimisation for fuel savings
- Adjusting for peak efficiency
- Spot checking of emission points
- Troubleshooting

#### Special functions

- Battery monitoring with auto-off function
- Automatic overrange protection
- Dräger MSI VARIOx CO<sub>2</sub>:  
CO<sub>2</sub> concentration calculated from rest oxygen content of standardised fuels
- Dräger MSI VARIOx Diffusion (dual-mode CO measurement):
  1. Extraction mode with pump from stack
  2. Diffusion mode w/o pump from air

## TECHNICAL DATA

Measuring range	Dräger MSI VARIOx O <sub>2</sub>	0 to 20.9 Vol.%
	Dräger MSI VARIOx CO <sub>2</sub>	0 to 15.4 Vol.% (calculated)
	Dräger MSI VARIOx CO	0 to 4,000 ppm
	Dräger MSI VARIOx CO+	0 to 2 Vol.%
	Dräger MSI VARIOx Diffusion	0 to 2,000 ppm (CO in ambient air/flue gas)
	Dräger MSI VARIOx NO <sub>2</sub>	0 to 200 ppm
	Dräger MSI VARIOx SO <sub>2</sub>	0 to 2,000 ppm
Measuring principle	Electrochemical sensor for real-time measurement	
Display	Liquid crystal display, numeric	
Gas sampling	Internal membrane pump for continuous gas sampling	
Gas conditioning	Position-free condensate collection cartridge with particle filter	
Dimensions	180 x 80 x 45 mm (H x W x D)	
Weight	295 g with battery and gas conditioner	
Power supply	9 V block battery (Alkaline 10 h, NiCd 2 to 3 h operation time)	

## ORDER INFORMATION

Dräger MSI VARIOx O <sub>2</sub>	56 00 614
Dräger MSI VARIOx CO <sub>2</sub>	56 00 615
Dräger MSI VARIOx CO	56 00 617
Dräger MSI VARIOx CO+	56 00 618
Dräger MSI VARIOx Diffusion	56 00 619
Dräger MSI VARIOx NO <sub>2</sub>	56 00 620
Dräger MSI VARIOx SO <sub>2</sub>	56 00 621
Gas probe, Al, 0.7 m hose, c/w mounting cone (up to 200 °C)	56 00 291
Gas probe, CU, 0.7 m hose, c/w mounting clip (up to 250 °C)	56 00 613
Gas probe, Teflon, 0.7 m hose, c/w mounting clip (up to 200 °C)	56 00 518
Gas probe, stainless steel, 0.7 m hose (up to 600 °C)	56 00 608
Mounting cone for 56 00 608	56 30 131
Leather case, black with magnetic holder	56 00 577
PC cable, Dräger MSI VARIOx	56 00 624

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