

# Dräger Polytron 3000

## Fixed gas detector

The Dräger Polytron 3000 is an intrinsically safe gas detector for the continuous monitoring of more than 60 toxic gases and oxygen in ambient air. It is the part of a new generation of gas detectors developed on a modular platform. Communication to the central control system is done via a 4 to 20 mA signal.



ST-3626-2003

### SIMPLE, QUICK INSTALLATION

The two component concept of a Docking Station and a Dräger Polytron 3000 electronics saves time and money. The Docking Station can be pre-installed – mounting and wiring it into place separately – while protected by a rain and dust cover until commissioning. At commissioning, the Dräger Polytron 3000 electronics is fixed by a quicklock mechanism into the Docking Station, the sensor inserted - and the system is ready for operation.

### EASY TO OPERATE

The Dräger Polytron 3000 is easy to handle with simple maintenance procedures. The DrägerSensors are equipped with a data memory where the calibration information is stored. This allows the Dräger Polytron 3000 to either accept a precalibrated sensor, or the sensor can be calibrated with the transmitter. Digital temperature compensation of the sensor signal is automatically performed.

### WIDE RANGE OF APPLICATION

With unsurpassed RFI resistance and versatile mounting options the Dräger Polytron 3000 is suitable for a wide range of applications.



ST-3811-2003

### Dräger Polytron 3000

Intrinsically safe gas detector for toxic gases and oxygen in ambient air.

#### Gas

Ammonia	Boron Trichloride	Butadiene
Carbon Monoxide	Chlorine	Diborane
Diethyl Ether	Ethylene Oxide	Germane
Hydrazine	Hydrofluoric Acid	Hydrogen
Hydrogen Chloride	Hydrogen Cyanide	Hydrogen Sulfide
Isopropanol	Nitrogen Dioxide	Nitrogen Monoxide
Oxygen	Ozone	Phosphine
Propylene	Sulfur Dioxide	Tetrahydrofurane

For other gases ask our system centers

## TECHNICAL DATA

Type	Intrinsically safe transmitter for electrochemical sensors	
Gases and Ranges	Toxic gases and oxygen in various ranges	
Output	Analog	4 to 20 mA
	Maintenance signal	3.4 mA constant
	Fault signal	< 3.2 mA
Power Supply	12 to 30 VDC, 2-wire	
Ambient Conditions	Transmitter only, for sensors see separate sensor data sheet	
	Temperature	- 40 to + 65 °C / - 40 to + 150 °F
	Pressure	700 to 1300 mbar / 20.7 to 38.4 inch Hg
	Humidity	0 to 100 %RH, non condensing
Enclosure	IP 66 / 67, NEMA 4, GRP housing, M20 cable gland	
Dimensions (approx.)	166 x 135 x 129 mm / 6.54" x 5.32" x 5.08" (H x W x D)	
Weight (approx.)	900 g / 2 lbs.	
Approvals	ATEX	II 1G Ex ia IIC Ga T4/T6 - 40 °C to + 65 / + 40 °C
		II 3G Ex ic IIC Gc T4/T6 - 40 °C to + 65 / + 40 °C
		I M1 Ex ia I Ma - 40 °C to 65 °C
	IECEX	Ex ia IIC T4/T6 Ga - 40 °C to + 65 / + 40 °C
		Ex ic IIC T4/T6 Gc - 40 °C to + 65 / + 40 °C
		Ex ia I Ma - 40 °C to 65 °C
	UL	Class I, Div 1, Group A, B, C, D
		Class II, Div 1, Group E, F, G
		T6/T4: - 40 to + 40 / + 65 °C
	CSA	Class I, Div 1, Group A, B, C, D
Ex ia T6/T4: - 40 to + 40 / + 65 °C		
CE mark	electromagnetic compatibility (2004/108/EG)	

## ORDER INFORMATION

Dräger Polytron 3000 with Display	Various
Dräger Polytron 3000 without Display	Various
Polytron Docking Station, one per transmitter	83 17 990
Duct Mount Kit	83 17 150

### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
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[www.draeger.com](http://www.draeger.com)

### SYSTEM CENTERS

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