

# Dräger Polytron 3000 Fixed gas detector



The Dräger Polytron 3000 is an intrinsically safe gas detector for the continuous monitoring of 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. The Dräger Polytron 3000 is available with or without display, in over 60 versions for different gases and set ranges.

### 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.

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.

### Easy to operate

The Dräger Polytron 3000 is easy to handle with simple maintenance procedures. The



**Dräger Polytron 3000:**  
Intrinsically safe gas  
detector for toxic gases  
and oxygen in ambient air.

GAS	RANGE
Acid Compounds	0 to 3 / 10 ppm
Ammonia (NH <sub>3</sub> )	0 to 100 / 300 / 1000 ppm
Boron Trichloride (BCl <sub>3</sub> )	0 to 10 ppm
Carbon Monoxide (CO)	0 to 100 / 300 / 1000 ppm
Chlorine (Cl <sub>2</sub> )	0 to 1 / 10 / 25 ppm
Diborane (B <sub>2</sub> H <sub>6</sub> )	0 to 0.5 ppm
Hydride (PH <sub>3</sub> )	0 to 0.3 / 1 / 10 ppm
Hydrogen (H <sub>2</sub> )	0 to 1000 / 3000 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	0 to 20 / 50 / 100 ppm
Hydrazine (N <sub>2</sub> H <sub>4</sub> )	0 to 1 ppm
Nitrogen Dioxide (NO <sub>2</sub> )	0 to 10 ppm
Nitrogen Monoxide (NO)	0 to 50 ppm
Organic Vapours	0 to 50 / 100 / 200 ppm
Oxygen (O <sub>2</sub> )	0 to 5 / 25 / 100 Vol.%
Ozone (O <sub>3</sub> )	0 to 0.5 ppm
Sulfur Dioxide (SO <sub>2</sub> )	0 to 10 ppm

## TECHNICAL INFORMATION

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 EEx ia IIC T6/T4: - 40 to + 40 / + 65 °C
		II 3G EEx nL IIC T6/T4: - 25 to + 40 / + 65 °C
		II 3D IP6x T65 °C
	IECEX	EEx ia IIC T6/T4: - 40 to + 40 / + 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 (directive 89/336/EEC)	

## 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

┌

┐

└

┘



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



**UK Office**

**Keison Products,**

**P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.**

**Tel: +44 (0)1245 600560**

**Fax: +44 (0)1245 600030**

**Email: [sales@keison.co.uk](mailto:sales@keison.co.uk)**

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.