

Dräger Polytron 3000



ST-3826-2003

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 first 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



ST-3811-2003

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

GAS

Acid Compounds

Ammonia (NH₃)

Boron Trichloride (BCl₃)

Carbon Monoxide (CO)

Chlorine (Cl₂)

Diborane (B₂H₆)

Hydride (PH₃)

Hydrogen (H₂)

Hydrogen Sulfide (H₂S)

Hydrazine (N₂H₄)

Nitrogen Dioxide (NO₂)

Nitrogen Monoxide (NO)

Organic Vapours

Oxygen (O₂)

Ozone (O₃)

Sulfur Dioxide (SO₂)

RANGE

0 to 3 / 10 ppm

0 to 100 / 300 / 1000 ppm

0 to 10 ppm

0 to 100 / 300 / 1000 ppm

0 to 1 / 10 / 25 ppm

0 to 0.5 ppm

0 to 0.3 / 1 / 10 ppm

0 to 1000 / 3000 ppm

0 to 20 / 50 / 100 ppm

0 to 1 ppm

0 to 10 ppm

0 to 50 ppm

0 to 50 / 100 / 200 ppm

0 to 5 / 25 / 100 Vol%

0 to 0.5 ppm

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	
Size (H x W x D, approx.)	170 x 130 x 130 mm / 6.7" x 5.1" x 5.1"	
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
	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
*pending	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



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