

Dräger Polytron® 3000 Detector for toxic gases and oxygen

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.



Benefits

Simple, quick installation

The Polytron 3000 consists of two components, the dockingstation, for mechanical and electrical installation, and the Polytron 3000 transmitter. The dockingstation can be mounted and wired in advance, guarded against rain and dust by a modular cover until time of commissioning. During commissioning, the Polytron 3000 is simply inserted into the dockingstation and secured with a quick lock mechanism. After inserting the sensor, the system is ready for operation.

Wide range of applications

With its exceptional electromagnetic compatibility and a variety of mounting options, the CE marked Polytron 3000 is suitable for many different areas of application ranging from chemical to the semiconductor industries.

Easy to operate and maintain

The operation and maintenance of the Polytron 3000 is easy. The tried and tested DrägerSensor is equipped with an integrated data memory that contains all calibration information. This allows the Polytron 3000 to accept a pre-calibrated sensor, speeding up maintenance or sensor change. If preferred, the sensor can be field calibrated in the transmitter.

Explosion Protection

For global use the Polytron 3000 is approved according to ATEX, IECEx, UL and CSA.

System Components



D-19051-2016

Electrochemical DrägerSensor®

Fast response, high accuracy, great stability, long life. Electrochemical DrägerSensors offer all these benefits. You can use the robust and long-life sensors for the selective measurement of the smallest concentrations of toxic gases and oxygen in ambient air.



D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable control system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the backward compatibility with the REGARD®.



D-39957-2021

Dräger REGARD® 3000

Monitor various gases and vapours with the modular Dräger REGARD® 3000 control system. Its multi-coloured status light signals the status of your gas detection system. The controller allows you to combine three different modules: Input, Relay and Gateway module. You can connect up to four analogue transmitters and eight relays in combination.

Accessories



Dockingstation

For easy and time-saving mounting of the Dräger Polytron® 3000 or 7000. One dockingstation is required for each Polytron® 3000 or 7000.



Viton calibration adapter

Viton adapter for zero-point tests and the calibration of transmitters with electrochemical sensors (not type AC), catalytic sensors (pellistors) and transmitters of type Polytron IR CO₂ and Polytron IR Ex HC.



Gassing adapter

Adapter for permanent gassing and or the calibration of transmitters with electrochemical sensors (not type AC), catalytic sensors (pellistors) and transmitters of type Polytron IR CO₂ and Polytron IR Ex HC. Also suitable for continuous use in connection with a sampling unit.

Related Products



ST-3812-2003

Dräger Polytron® 7000

The Dräger Polytron® 7000 gas detector can satisfy many toxic and oxygen gas measurement applications on a single platform. It meets compliance requirements as well as the high specification requirements of customised solutions.



D-86378-2013

Dräger Polytron® 2000

Robust, precise, safe – the Dräger Polytron® 2000 is a stationary gas detector for measuring standard gases (O₂, H₂S, NH₃, Cl₂, CO). With the new, pre-calibrated DrägerSensor MEC and robust design, this gas transmitter is a reliable and economic solution for non-explosion proof areas.

Technical Data

Dräger Polytron® 3000

Type	Intrinsically safe transmitter for electrochemical sensors	
Gases and Ranges	Toxic gases and oxygen in various ranges	
Electrical Data		
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	
Housing		
Housing material	GRP housing	
Protection class	IP 66 / 67	
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.	
Cable gland	M20	
Ambient Conditions		
Temperature	- 40 to + 65 °C / - 40 to + 150 °F	
Humidity	0 to 100 %RH, non condensing	
Pressure	700 to 1300 mbar / 20.7 to 38.4 inch Hg	
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 (2014/30/EG)	
Gas		
Ammonia	Carbon Monoxide	Chlorine
Ethylene Oxide	Hydrogen	Hydrogen Chloride
Hydrogen Cyanide	Hydrogen Sulfide	Nitrogen Dioxide
Nitrogen Monoxide	Oxygen	Ozone
Propylene		
Other gases on demand		

Ordering Information

Dräger Polytron® 3000 with Display	Various
Polytron® Dockingstation, one per transmitter	83 17 990
Duct Mount Kit	83 17 150

Notes

Notes

Not all products, features, or services are for sale in all countries.
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