

## Dräger Polytron® 3000 Toxic Gas Detection

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.



## Benefits

### Simple, quick installation

The Polytron 3000 consists of two components, the docking station, for mechanical and electrical installation, and the Polytron 3000 transmitter. The docking station 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 docking station and secured with a quick-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

Approvals for worldwide use including, ATEX, IECEx, UL, CSA and temperature range from -40 to +65°C, Protection class (IP66/67).

## System Components



ST-3831-2003

### 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-27771-2009

### Dräger REGARD® 3900

The Dräger REGARD® 3900 is a standalone, self contained control system for the detection of Toxic, Oxygen and Ex hazards. The control system is fully configurable between 1 and 16 channels, depending upon the type and quantity of input/output boards installed.



ST-3335-2004

### Dräger REGARD®-1

The Dräger REGARD®-1 is a standalone, self contained single channel control system for the detection of Toxic, Oxygen and Ex hazards. The control system is fully configurable for a single input from either a 4 to 20 mA transmitter or a Dräger Polytron® SE Ex measuring head.



D-6806-2016

### Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable analysis 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®.

## Accessories



ST-3809-2003

### Dockingstation

For easy and time-saving mounting of the Dräger Polytron 3000 or 7000. One dockingstation is required for each Polytron 3000 or 7000.  
Order no. 83 17 990



ST-5676-2006

### 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 CO<sub>2</sub> and Polytron IR Ex HC.  
Order No.: 68 10 536



ST-5678-2008

### 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 CO<sub>2</sub> and Polytron IR Ex HC. Also suitable for continuous use in connection with a sampling unit.  
Order No.: 68 06 978



ST-5695-2006

### Test gas ampoules

For use with the calibration bottle.

## Related Products



ST-3812-2003

### Dräger Polytron® 7000

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



D-55378-2013

### Dräger Polytron® 2000

Robust, precise, safe – the Dräger Polytron® 2000 is a stationary gas detector for measuring standard gases ( $O_2$ ,  $H_2S$ ,  $NH_3$ ,  $Cl_2$ ,  $CO$ ). 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

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
		Ex ia IIC T4/T6 Ga - 40 °C to + 65 / + 40 °C
		Ex ic IIC T4/T6 Gc - 40 °C to + 65 / + 40 °C
	IECEX	Ex ia I Ma - 40 °C to 65 °C
		Class I, Div 1, Group A, B, C, D
		Class II, Div 1, Group E, F, G
	UL	T6/T4: - 40 to + 40 / + 65 °C
		Class I, Div 1, Group A, B, C, D
	CSA	Ex ia T6/T4: - 40 to + 40 / + 65 °C
	CE mark	electromagnetic compatibility (2004/108/EG)
<b>Gas</b>		
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	Tetrahydrofuran
For other gases ask our system centers		

## Ordering Information

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

Notes