

## Dräger Polytron<sup>®</sup> 2000 Toxic Gas Detection

Robust, precise, safe – the Dräger Polytron<sup>®</sup> 2000 is a stationary gas detector for measuring standard gases (O<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, Cl<sub>2</sub>, 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.



## Benefits

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### **Robust, precise, safe**

The globally proven Dräger sensor technology forms the core of the Polytron 2000. The miniaturised electrochemical sensor (MEC) stands out for its longevity and precision. The DrägerSensor MEC marks the introduction of a new design for electrochemical sensors into the stationary gas detectors made by Dräger, which are matched precisely to the basic applications of stationary gas transmitters.

The Polytron 2000 has protection class IP54 dust and water protection and a robust polyamide housing. But the internals of the device are also extremely robust. The transmitter electronics of the Polytron 2000 are designed for temperatures of - 40° to + 65 °C and are thus highly suitable for the most diverse operating conditions.

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### **Simple and energy-saving**

The modular concept of docking station and transmitter can be assembled in no time at all. The docking station can be pre-installed and cabled, thus saving time. Commissioning is carried out by simply inserting the transmitter in the docking station and locking it by means of a quick-release fastener. The low energy consumption of just 50 mW permits a simple 2-wire installation.

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### **Immediately ready for use**

The Polytron 2000 is pre-configured to the required gas and measuring range before use. The device is thus immediately ready for use and no longer has to be adjusted. This also applies to the Dräger MEC sensor. It is equipped with an internal datalogger and is pre-calibrated accordingly. The Polytron 2000 is thus operational immediately after a warm-up phase.

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### **Easy diagnosis and maintenance**

All measurement, warning and maintenance values as well as fault states are shown on the display and can simply be read off. Maintenance of the Polytron 2000 is quick and easy to carry out.

## System components

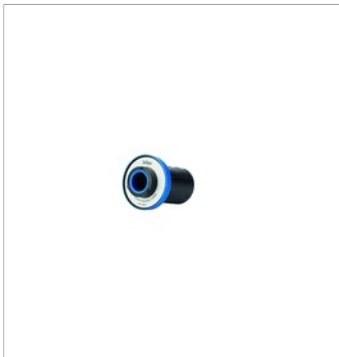


ST-335-2004

### 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.

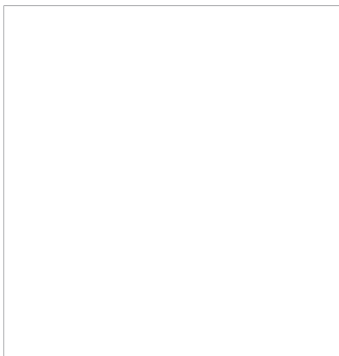
## Accessories



D-88367-2013

### MEC Key

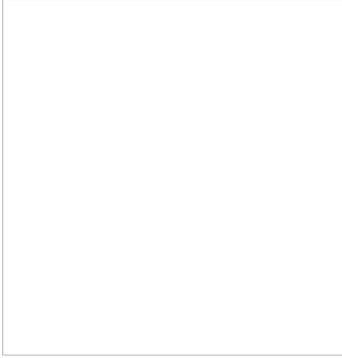
Required for Dräger Sensor MEC 6812695



### DrägerSensor MEC O<sub>2</sub>-LS

6812740

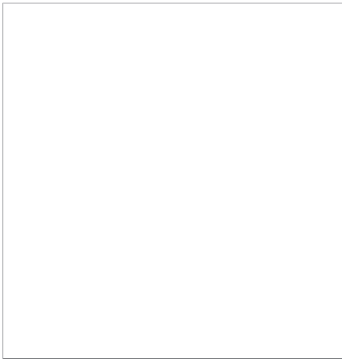
## Accessories



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**DrägerSensor MEC NH<sub>3</sub>**

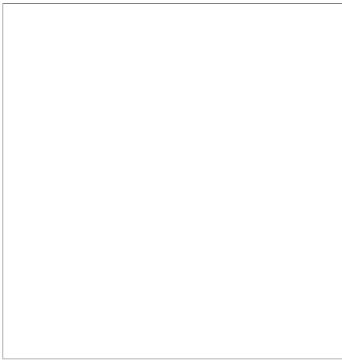
6812750



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**DrägerSensor MEC CO**

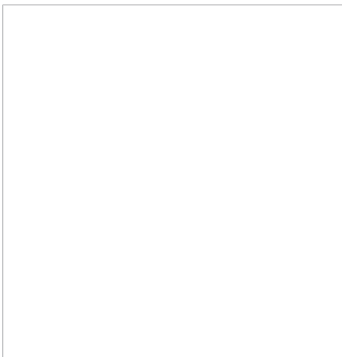
6812730



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**DrägerSensor MEC Cl<sub>2</sub>**

6812745



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**DrägerSensor MEC H<sub>2</sub>S**

6812735

## Related Products



ST-3812-2003

### Dräger Polytron® 7000

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



ST-3811-2003

### Dräger Polytron® 3000

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.



D-6452-2010

### Dräger VarioGard® 3000

The Dräger VarioGard® 3000 EC is a digital transmitter with an integrated electrochemical sensor. It detects oxygen and toxic gases in the ambient air. This affordable system component makes it easier for you to configure a gas warning system.

## Technical Data

Type	Transmitter for electrochemical sensors	
Gases and measuring ranges	O <sub>2</sub>	0 to 25 Vol.-%
	NH <sub>3</sub>	0 to 200 ppm
	H <sub>2</sub> S	0 to 20 ppm
		0 to 100 ppm
	CO	0 to 300 ppm
		0 to 1,000 ppm
Cl <sub>2</sub>	0 to 10 ppm	
Output signal	Analogue	4 to 20 mA
	Maintenance	3,4 mA
	Fault	< 3,2 mA
Supply voltage	12 to 30 VDC, 2-wire	
Ambient conditions (for transmitters only, for sensors see sensor datasheet)	Temperature	- 40 to + 65 °C
	Pressure	20.7 to 38.4 inch Hg / 700 to 1300 mbar
	Humidity	0 to 100% r. h., non-condensing
Enclosure	Fibre-glass reinforced plastic, RAL 7046 HR, IP54	
Dimensions	approx. 166 × 135 × 129 mm (H × W × D)	
Cable entry point	M20 x 1.5, for cable diameter 6 to 12 mm	
Weight	approx. 900 g	
Regulations/standards	CE marking (Directive 2004/108/EC)	

## Ordering Information

Polytron 2000 O <sub>2</sub> LS 25 Vol.-%	83 23 747
Polytron 2000 NH <sub>3</sub> LC 200 ppm	83 23 689
Polytron 2000 H <sub>2</sub> S LC 20 ppm	83 23 685
Polytron 2000 H <sub>2</sub> S LC 100 ppm	83 23 688
Polytron 2000 Cl <sub>2</sub> 10 ppm	83 23 750
Polytron 2000 CO 300 ppm	83 23 684
Polytron 2000 CO 1000 ppm	83 23 681

### ACCESSORIES

Docking Station	83 23 677
MEC Key	68 12 695
DrägerSensor MEC O <sub>2</sub> LS	68 12 740
DrägerSensor MEC NH <sub>3</sub>	68 12 750
DrägerSensor MEC CO	68 12 730
DrägerSensor MEC Cl <sub>2</sub>	68 12 745
DrägerSensor MEC H <sub>2</sub> S	68 12 735

## Notes

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### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
[www.draeger.com](http://www.draeger.com)

#### Manufacturer:

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Revalstraße 1  
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Locate your Regional  
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