

Dräger Polytron® 5000 Stationary gas detector (EC)

The microprocessor-based transmitter can be equipped with various electrochemical DrägerSensors. This way, you can detect oxygen and various toxic gases in ambient air – reliably, quickly and cost-effectively, as the Polytron® 5000 is the result of more than 40 years of experience in measurement technology.



Benefits

Proven – and still getting better: Dräger measurement technology

Dräger has been developing and manufacturing sensors and gas detectors for industrial use for more than 40 years. And with each new device generation, we drive our measurement technology a bit further. With the Polytron 5000, you will definitely benefit from this experience and power of innovation:

- durable sensors
 - short response times
 - high sensitivity
 - high accuracy
 - low sensitivity to other gases or changing ambient conditions
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Optional: two mounting sets for easy flange-mounting

The housing has four mounting holes. Two different mounting sets are available for installing the Polytron 5000: a duct-mount and a pipe mount set. This means that the transmitter can be easily installed anywhere – e.g., on a smooth wall, a pipe or an exhaust duct.

Quick and easy wiring

The electronics and the bezel form a single unit. Simply pull them out of the housing. Then insert the two-wire cable into the terminals. Finally plug the terminal block into the PCB.

Easy and cost-effective: single-operator calibration

The transmitter settings can be changed and maintenance carried out without opening the housing. The unit is meant only for use as general purpose gas monitor, not for use in classified areas. Use the magnetic wand to quickly and easily select menu items and functions. An additional hand held terminal is not required. The sensor contains an integrated database where all important information is stored. This enables you to use pre-calibrated sensors.

Further advantages:

- Aluminum housing
- Extremely user-friendly software thanks to a minimum number of menu items

System components



ST-3831-2003

DrägerSensor EC Electrochemical Sensors

Faster response – higher accuracy – greater stability – longer life. Dräger electrochemical sensors offer all these benefits. The robust and long-life sensors are used for the selective measurement of the smallest concentrations of toxic gases and oxygen in ambient air.



D-27777-2009

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.



2-669-95

Dräger REGARD® control system

Tried and tested thousands of times and infinitely flexible. The modular Regard® control system can be individually adapted to any monitoring task. Suitable for SIL 2 systems, the Regard® system is also ATEX approved, and meets EMC directive standards.



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



Magnetic Wand

for menu access

Related Products



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.



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.

Related Products



D-39563-2011

Dräger Polytron® 5720

Quick, reliable and cost-effective detection of carbon dioxide in ambient air: the microprocessor-based Dräger Polytron® 5720 transmitter is the result of more than 40 years of experience in measurement technology and contains a new, innovative IR sensor with drift-free optics. These optics are extremely resistant against deposits and insects in the beam.

Technical Data

Dräger Polytron® 5000

Type	General purpose transmitter			
Gases and Ranges	Toxic gases and oxygen in discrete pre-set values, user selectable			
Display	3-digit LCD			
FSD (Full Scale Deflection)	O ₂		25 Vol.-%	
	CO		50 / 100 / 200 / 300 / 500 ppm	
	H ₂ S zero-bias		10 / 20 / 50 / 100 ppm	
	H ₂ S LC		10 / 20 / 50 / 100 ppm	
	H ₂ S HC		100 / 200 / 300 / 500 ppm	
	H ₂		500 ppm	
	Cl ₂		5 / 10 / 20 / 50 ppm	
	EO		20 / 50 / 100 ppm	
	NH ₃ LC		50 / 100 ppm	
	NH ₃ HC		300 / 500 ppm	
	NO		50 / 100 ppm	
	NO ₂		5 / 10 / 20 / 50 / 100 ppm	
	SO ₂		5 / 10 / 20 / 50 / 100 ppm	
	H ₂ O ₂ LC		5 / 10 / 20 / 50 / 100 ppm	
	Electrical data	Signal Output	Normal operation	4-to-20-mA
			Maintenance	4 mA ±1 mA 1 Hz modulation, or steady 3 mA; user selectable
			Fault	< 2 mA
Supply Voltage			16 to 30 VDC, 2-wire	
Ambient conditions (see also sensor data sheet)	Temperature		-40 to + 150 °F / - 40 to + 65 °C	
	Pressure		20.7 to 38.4 inch Hg / 700 to 1,300 mbar	
	Humidity		0 to 100 %RH, non-condensing	
Enclosure	Transmitter housing		epoxy-coated copper free aluminum	
	Sensor housing		316L stainless steel	
	Enclosure Rating		NEMA 4X & 7, IP65/66/67	
	Cable Entry		3/4" NPT female conduit entry	
	Size (l x w x d, approx.)			9.5" x 5.8" x 5.1" / 240 x 150 x 130 mm
		Weight (approx.)	aluminum	5.9 lbs / 2.7 kg
	stainless steel			9.7 lbs / 4.4 kg

Ordering Information

Dräger Polytron® 5000 aluminum enclosure without sensor; general purpose	45 44 165
Magnetic wand for menu access (blue body, white logo)	45 44 101

Ordering Information

Pipe Mount Kit	45 44 198
Duct Mount Kit Polytron® 5000	68 12 725
Splash Guard	68 12 510
Calibration Adapter PE	45 09 314
Calibration Adapter PE, Europe	68 06 978
Calibration Adapter Viton®	68 10 536
DrägerSensor O ₂ LS	68 09 630
DrägerSensor CO	68 09 605
DrägerSensor H ₂ S zero-bias	68 10 435
DrägerSensor H ₂ S LC	68 09 610
DrägerSensor H ₂ S HC	68 09 710
DrägerSensor H ₂	68 09 685
DrägerSensor Cl ₂	68 09 665
DrägerSensor EO	68 10 740
DrägerSensor NH ₃ LC	68 09 680
DrägerSensor NH ₃ HC	68 09 645
DrägerSensor NO	68 09 625
DrägerSensor NO ₂	68 09 655
DrägerSensor SO ₂	68 09 660
DrägerSensor H ₂ O ₂ LC	68 09 705
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