

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.



Dräger. Technology for Life®

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.

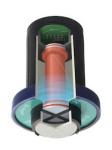
Easy to operate and maintain

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



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.

ST-3831-20



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.

D-27777-200



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.

335,9004



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®.

806-2016

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. Order no. 83 17 990



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_2 and Polytron IR Ex HC.

Order No.: 68 10 536



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 ${\rm CO_2}$ and Polytron IR Ex HC. Also suitable for continuous use in connection with a sampling unit.

Order No.: 68 06 978



Test gas ampoules



For use with the calibration bottle.

Related Products



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.

T-3812-200



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.

35378-2013

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)

UL

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

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

Class I, Div 1, Group A, B, C, D

Class II, Div 1, Group E, F, G

T6/T4: - 40 to + 40 / + 65 °C

Ex ia I Ma - 40 °C to 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 (2004/108/

EG)

Gas

Ammonia Boron Trichloride Butadiene Diborane Carbon Monoxide Chlorine 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 Tetrahydrofurane

For other gases ask our system centers

Ordering Information

Dräger Polytron 3000 with Display

Dräger Polytron 3000 without Display

Various

Polytron Dockingstation, one per transmitter

B3 17 990

Duct Mount Kit

83 17 150

Notes