

Dräger Polytron 3000



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 first 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. The Dräger Polytron 3000 is available with or without display, in over 60 versions for different gases and set ranges.

Simple, quick installation

The two component concept of a Docking Station and a Dräger Polytron 3000 electronics saves time and money. The Docking Station can be pre-installed – mounting and wiring it into place separately – while protected by a rain and dust cover until commissioning. At commissioning, the Dräger Polytron 3000 electronics is fixed by a quicklock mechanism into the Docking Station, the sensor inserted – and the system is ready for operation.

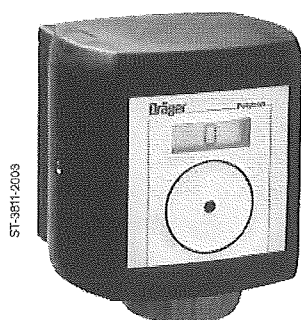
DrägerSensors are equipped with a data memory where the calibration information is stored. This allows the Dräger Polytron 3000 to either accept a precalibrated sensor, or the sensor can be calibrated with the transmitter. Digital temperature compensation of the sensor signal is automatically performed.

Wide range of application

With unsurpassed RFI resistance and versatile mounting options the Dräger Polytron 3000 is suitable for a wide range of applications.

Easy to operate

The Dräger Polytron 3000 is easy to handle with simple maintenance procedures. The



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Intrinsically safe gas
detector for toxic gases
and oxygen in ambient air.

GAS

RANGE

| | |
|--|---------------------------|
| Acid Compounds | 0 to 3 / 10 ppm |
| Ammonia (NH ₃) | 0 to 100 / 300 / 1000 ppm |
| Boron Trichloride (BCl ₃) | 0 to 10 ppm |
| Carbon Monoxide (CO) | 0 to 100 / 300 / 1000 ppm |
| Chlorine (Cl ₂) | 0 to 1 / 10 / 25 ppm |
| Diborane (B ₂ H ₆) | 0 to 0.5 ppm |
| Hydride (PH ₃) | 0 to 0.3 / 1 / 10 ppm |
| Hydrogen (H ₂) | 0 to 1000 / 3000 ppm |
| Hydrogen Sulfide (H ₂ S) | 0 to 20 / 50 / 100 ppm |
| Hydrazine (N ₂ H ₄) | 0 to 1 ppm |
| Nitrogen Dioxide (NO ₂) | 0 to 10 ppm |
| Nitrogen Monoxide (NO) | 0 to 50 ppm |
| Organic Vapours | 0 to 50 / 100 / 200 ppm |
| Oxygen (O ₂) | 0 to 5 / 25 / 100 Vol% |
| Ozone (O ₃) | 0 to 0.5 ppm |
| Sulfur Dioxide (SO ₂) | 0 to 10 ppm |

TECHNICAL INFORMATION

| | | |
|---------------------------|--|--|
| 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 | |
| Size (H x W x D, approx.) | 170 x 130 x 130 mm / 6.7" x 5.1" x 5.1" | |
| Weight (approx.) | 900 g / 2 lbs. | |
| Approvals | ATEX | II 1G EEx ia IIC T6/T4: - 40 to + 40 / + 65 °C II 3G EEx nL IIC T6/T4: - 25 to + 40 / + 65 °C |
| | IECEx | EEx ia IIC T6/T4: - 40 to + 40 / + 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 |
| *pending | CE mark | electromagnetic compatibility (directive 89/336/EEC) |

ORDER INFORMATION

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|---|-----------|
| Dräger Polytron 3000 with Display | Various |
| Dräger Polytron 3000 without Display | Various |
| Polytron Docking Station, one per transmitter | 83 17 990 |
| Duct Mount Kit | 83 17 150 |

SYSTEMS CENTERS

P. R. CHINA

Beijing Fortune Draeger
Safety Equipment Co., Ltd.
Yu An Lu A 22, B Area
Beijing Tianzhu Airport
Industrial Zone
Houshayu Shunyi District
Beijing 101300
Tel +86 10 80 49 80 00
Fax +86 10 80 49 80 05

FRANCE

Draeger Industrie S.A.S.
3c, Route de la Fédération
67025 Strasbourg Cedex
Tel +33 388 40 76 76
Fax +33 388 40 76 67

SINGAPORE

Draeger Safety Asia Pte. Ltd.
67, Ayer Rajah Crescent # 06 03
139950 Singapore
Tel +65 68 72 92 88
Fax +65 67 73 20 33

UNITED KINGDOM

Draeger Safety UK Ltd.
Ullswater Close
Kitty Brewster Industrial Estate
Blyth, Northumberland NE24 4RG
Tel +44 1670 352 891
Fax +44 1670 540 033

USA

Draeger Safety, Inc.
505 Julie Rivers
Suite 150
Sugar Land, TX 77478
Tel +1 281 498 1082
Fax +1 281 498 5190

Dräger Safety AG & Co. KGaA

Revalstrasse 1
23560 Luebeck, Germany
Tel +49 451 882 2794
Fax +49 451 882 4991
www.draeger-safety.com