

# PointGard 3100

Air oxygen level monitoring device

**Plug and Play**

**Robust  
IP66-rated**

**Self-contained**



## Technical specifications

**Operating Voltage :** 100–240 VAC, 50–60 Hz

**Display & Controls:** 3" (75 mm) backlit graphic LCD

**Indicators:** 3 status LEDs (green, yellow, red)

**Alarm Devices:**

- 1 adjustable audible alarm, 85–105 dB, continuous or intermittent tone
- Flashing LED beacons (orange and red), with distinct flash patterns corresponding to A1 and A2 alarms

**Outputs:**

- 2 alarm relays and 1 fault relay (SPDT, 5 A at 230 VAC or 5 A at 30 VDC)
- 1 analog 4–20 mA output (measurement retransmission)

**Functions:**

- Data and event logger with capacity for over 35,000 records
- Warning and fault messages displayed in full text
- Alarm reset via front-panel pushbutton

**Electrical Approval:**

- CE marking, IEC / EN 61010-1
- Compliant with UL 61010-1
- Class B device, residential use, compliant with ICES-3(B) / NMB-3(B)

**Housing:**

- Material: Glass fiber–reinforced polyester (GFRP)
- Wall mounting via internal screws or optional stainless-steel brackets
- Enclosure rating: IP66, suitable for indoor or outdoor use
- Cable entries: 3 × 1/2" NPT cable glands
- Dimensions (H × W × D): 255 × 280 × 120 mm
- Weight: 3.9 kg

## Product description

The **PointGard 3100** is a fully self-contained, autonomous gas detection system that is complete and ready to use, integrating measurement, evaluation, and both visual and audible alarms. Designed to monitor toxic gas or oxygen concentrations, it provides immediate alerts when thresholds are exceeded and can automatically activate ventilation. Compact and robust, it is easy to install and can be integrated into supervisory systems thanks to its relays and 4–20 mA analog output.

### ► All-in-one and ready to use

The **PointGard 3100** combines measurement, evaluation, and both visual and audible alarms in a single compact enclosure. It can be used immediately after installation, and its sensor can be remotely mounted up to 30 m away if needed, allowing it to adapt to various room confi-

### ► Secure local monitoring

It detects toxic gases or oxygen and provides immediate alerts when alarm thresholds are exceeded. The device can also automatically activate ventilation to reduce gas concentration and ensure a safe environment before entry.

### ► Reliable and durable measurement technology

Equipped with DrägerSensor electrochemical sensors and Polytron 8100 electronics, the PointGard 3100 provides continuous, stable, and accurate measurement of over 100 toxic gases, even under harsh conditions or with temperature variations from –40 °C to +65 °C.

### ► Integrated alarms and flexible interfaces

The enclosure features orange (pre-alarm) and red (main alarm) flashing lights, as well as a siren adjustable between 85 and 105 dB. Three potential-free relays and a 4–20 mA analog output allow the addition of external devices or integration of the unit into a centralized supervisory system.

### ► Example Applications

- Laboratories and research centers
- Universities and teaching laboratories
- Cleanrooms and controlled industrial environments
- Cryogenic environments or areas containing asphyxiant gases
- Technical rooms or hazardous gas storage areas