



# Stand Alone Oxygen Deficiency Monitor

Gas Detection For Life

OX-600

**3 color LED  
Digital Display**

Normal

Warning

Alarm

## Features

- Operates with or without a controller
- Tri-color visual alarm display: Green=Normal, Yellow=Alarm 1, Red=Alarm 2
- Large easy to read digital display
- Three power options: 115 VAC, 24 VDC, or 2 AA alkaline
- Operates up to 1 year on one set of AA alkaline batteries
- Pressure compensation eliminates false alarms caused by pressure change
- Remote mount sensor cable available
- Compact wall mount design

## Applications

- Laboratories
- Cryogenic environments
- Clean rooms
- Industrial gas facilities
- Gas storage rooms
- Warehouses

RKI's Model OX-600 is an indoor, standalone monitor that detects Oxygen (O<sub>2</sub>) with a range of 0-25.0 % volume with 0.1% increments. It's sleek, low-profile design is equipped with a unique tri-color display, which changes color as oxygen levels reach each alarm level. It is capable of operating with three different power options; 115 VAC, 24 VDC or alkaline batteries. The OX-600 has two preset alarms, and comes ready to operate with a simple wall mount bracket and 10 foot power cord in its AC version. If abnormal level of Oxygen is present, the user is notified by an audible alarm tone and the multicolored LED digital display.

The OX-600 uses a fast responding low-cost plug-in style galvanic cell sensor. This long life sensor is field-replaceable with no special tools required. The sensor can also be remotely mounted with an optional remote sensor cable.

| Model OX-600 Specifications           |   |
|---------------------------------------|---|
| <b>Detection Principle</b>            | Galvanic cell   |
| <b>Gas Detected</b>                   | Oxygen (O <sub>2</sub> )  |
| <b>Detection Range</b>                | 0 ~ 25 vol%   |
| <b>Display Resolution</b>             | 0.1 vol%  |
| <b>Sampling Method</b>                | Diffusion or remote sampling method with optional sensor extender cable   |
| <b>Indication Accuracy*</b>           | Within $\pm 0.7$ vol%   |
| <b>Response Time*</b>                 | 90% Response within 30 seconds (T <sub>90</sub> )   |
| <b>Alarm Levels</b>                   | Two preset alarms (L-LL), alarm 1 = 19.5% vol, alarm 2 = 18.0% vol (other settings available)   |
| <b>Display of Alarm</b>               | 1st gas alarm: gas concentration reading blinks, flashing AL 1 icon, orange back light, buzzer<br>2nd gas alarm: gas concentration reading blinks, flashing AL 2 icon, red back light, buzzer |
| <b>Alarm Logic</b>                    | Latching or Non-latching (including trouble alarm)  |
| <b>Alarm Contact</b>                  | Dry contact, normally open or normally closed (default setting is normally open)  |
| <b>Display</b>                        | Digital LCD (3 digits, 7 segments / Green, Orange, Red) (For Alkaline battery version, the back light will be OFF during normal operation)  |
| <b>Trouble Alarm / Self-Diagnosis</b> | System trouble / sensor connection trouble  |
| <b>Display of Trouble Alarm</b>       | Buzzer / flashing of red error message  |
| <b>Relay Contact Rating</b>           | 125VAC, 1A or 30VDC, 1A (Resistive load)  |
| <b>Approvals</b>                      | CE marking standard. CSA approval optional (No power cord supplied with AC CSA version)   |
| <b>Output Signal</b>                  | 4 ~ 20mA (Non-isolated, Resistive load under 300 $\Omega$ ) or 0 - 1VDC (Non-isolated) *only for 0 - 1VDC Alkaline battery specification  |
| <b>Extender Cable (optional)</b>      | Extender cable with remote box (3 m, 5 m, 10 m, & 20 m lengths available)   |
| <b>Power Sources</b>                  | (120VAC $\pm 10\%$ , 50/60Hz,) 24VDC $\pm 10\%$ , or AA alkaline battery (2 each)   |
| <b>Power Consumption</b>              | AC specification: MAX 3.5VA, DC specification: MAX 2W   |
| <b>Battery Life</b>                   | 1 year (no alarm) (alkaline battery version)  |
| <b>Operating Temperature</b>          | 0 ~ 104°F (-17 ~ 40°C)  |
| <b>Operating Humidity</b>             | 0 - 90%RH (non-condensing)  |
| <b>Mounting Equipment</b>             | Wall mounting type (by using accessory mounting plate or mount at one switch box)<br>Cable inlet: Up, down and left/right, or rear side   |
| <b>Dimension</b>                      | Body: approx. 3.15"(W) x 4.72"(H) x 1.2"(D) (80(W) x 120(H) x 35.5(D)mm)  |
| <b>Weight</b>                         | AC specification: approx. 7.05 oz (200g), DC specification: approx. 6.34 oz (180g), Alkaline battery specification: approx. 8.11 oz (230g)  |
| <b>Warranty</b>                       | One year materials and workmanship  |

\*Under normal conditions



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