

Stand Alone Oxygen Deficiency Monitor

OX-600

RKI's Model OX-600 is an indoor, standalone monitor that detects Oxygen (O₂) 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 fieldreplaceable with no special tools required. The sensor can also be remotely mounted with an optional remote sensor cable.

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

Model EC-600 Specifications	
Detection Principle	Galvanic cell
Gas Detected	Oxygen (O ₂)
Detection Range	0 ~ 25 vol%
Display Resolution	0.1 vol%
Sampling Method	Diffusion or remote sampling method with optional sensor extender cable
Indication Accuracy*	Within ±0.7 vol%
Response Time*	90% Response within 30 seconds (T90)
Alarm Levels	Two preset alarms (L-LL), alarm 1 = 19.5% vol, alarm 2 = 18.0% vol (other settings available)
Display of Alarm	1st gas alarm: gas concentration reading blinks, flashing AL 1 icon, orange back light, buzzer 2nd gas alarm: gas concentration reading blinks, flashing AL 2 icon, red back light, buzzer
Alarm Logic	Latching or Non-latching (including trouble alarm)
Alarm Contact	Dry contact, normally open or normally closed (default setting is normally open)
Display	Digital LCD (3 digits, 7 segments / Green, Orange, Red) (For Alkaline battery version, the back light will be OFF during normal operation)

Trouble Alarm /Self-Diagnosis	System trouble / sensor connection trouble
Display of Trouble Alarm	Buzzer / flashing of red error message
Relay Contact Rating	125VAC, 1A or 30VDC, 1A (Resistive load)
Approvals	CE marking standard. CSA approval optional (No power cord supplied with AC CSA version)
Output Signal	4 ~ 20mA (Non-isolated, Resistive load under 300Ω) or 0 - 1VDC (Non-isolated) *only for 0 - 1VDC Alkaline battery specification
Extender Cable (optional)	Extender cable with remote box (3 m, 5 m, 10 m, & 20 m lengths available)
Power Sources	(120VAC±10%, 50/60Hz,) 24VDC±10%, or AA alkaline battery (2 each)
Power Consumption	AC specification: MAX 3.5VA, DC specification: MAX 2W
Continuous Operation	1 year (no alarm) (alkaline battery version)
Operating Temperature	0 ~ 104 °F (-17 ~ 40 °C)
Operating Humidity	0 - 90%RH (non-condensing)
Mounting Equipment	Wall mounting type (by using accessory mounting plate or mount at one switch box) Cable inlet: Up, down and left/right, or rear side
Dimension	Body: approx. 3.15"(W) x 4.72"(H) x 1.2"(D) (80(W) x 120(H) x 35.5(D)mm)
Weight	AC specification: approx. 7.05 oz (200g), DC specification: approx. 6.34 oz (180g), Alkaline battery specification: approx. 8.11 oz (230g)
Warranty	One year materials and workmanship