



Model OX-600

Oxygen Deficiency Monitor



Description

The 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 (115 VAC and 24 VDC versions), which changes color as oxygen levels reach each alarm level. The OX-600 has 2 preset alarms, and comes ready to operate with a simple wall mount bracket. The 115 VAC version comes with a 10-foot power cord. It is capable of operating with three different power options; 115 VAC, 24 VDC or alkaline batteries. If an oxygen deficiency is detected, the user is notified by an audible alarm tone (90 dB at one foot) 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. Calibration can also be easily done in the field.

Applications

- Laboratories
- Cryogenic environments
- Clean rooms
- Industrial gas facilities
- Gas storage rooms
- Indoor monitoring
- Iron and steel industry
- Warehouses
- Tunnels and garages
- Vehicle service areas

Design Features

- Operates with or without a controller
- Tri-color visual alarm display: Green=Normal, Yellow=Alarm 1, Red=Alarm 2 (115 VAC and 24 VDC versions)
- Silver LCD display for battery version
- 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

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 or orange light, flashing AL1 light or orange light, buzzer 2nd gas alarm: gas concentration reading blinks or red light, flashing AL2 light or red 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)
Output Signal:	4 ~ 20mA (Non-isolated, Resistive load under 300Ω) or 0 - 1VDC (Non-isolated) *only for 0 - 1VDC Alkaline battery specification
Extender Cable:	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 (for Alkaline Battery version):	1 year (no alarm, no indication)
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:	1 Year

*Under normal conditions

Ordering Information

Model Number	Input Power
SEQOX600115	120 VAC +/-10%, 50/60 Hz
SEQOX60024	24 VAC +/-10%
SEQOX600BAT	AA alkaline battery (2 each)