



INSTRUMENTS

INDOOR OXYGEN DIFFUSION GAS MONITOR

Gas Detection For Life

Model OX-500



Features

- Compact, wall mounting design
- Highly visible 3 color LED digital display
- Power cable can enter from any direction
- Stores alarm summary data
- Built in audible and visual alarms
- 115 VAC operation
- Relay outputs for annunciation of alarms
- Low cost plugin electrochemical sensor

Applications

- Iron and steel industry
- Laboratories
- Warehouses
- Tunnels and Garages
- Vehicle service areas
- Cleanroom
- Shipping / receiving docks
- Multi-occupancy residences

RKI's Model OX-500 is an indoor monitor that detects Oxygen (O₂) with a range of 0-25.0 % Volume (0.1 % Vol. digit). It's a sleek low profile design which lends itself to laboratory or commercial applications. The OX-500 comes ready to operate with a simple wall mount bracket and 10 foot power cord. If Oxygen is present, the user is notified by an audible alarm tone and multicolored LED display.

The OX-500 uses a fast responding low-cost plug-in style electrochemical sensor. This long life sensor is field-replaceable with no special tools required.

Specifications

Model	OX-500
Measuring Gas	Oxygen (O ₂)
Sampling Method	Diffusion
Detection Principle	Galvanic cell
Measuring Range	0-25.0 % Vol. (0.1 % Vol. digit)
Display	3 digits, 3 color LED (Green, Orange, Red) Normal: Green
Type of Alarms	Gas alarm: 2 level alarm (Latched mode / cancelled by reset switch) Trouble alarm: Sensor connection trouble (Non-latched mode)
Preset Alarm Levels	1st: 19% Vol., 2nd: 18% Vol.
Display of Alarm	1st Alarm: Flashing orange LED gas display AL1 LED orange color flashing, intermitted buzzer sound 2nd Alarm: Flashing red LED gas display AL2 LED red color flashing, continuous buzzer sound Trouble Alarm: Red flashing display "E-***" (**shows error number), short buzzer intermittent buzzer sound
Alarm Summary	10 alarm occurrences, time and alarm concentration
Output	4-20mA ADC
Alarm Relays	AL1 / AL2 Form A common, contact capacity: 125V 1A (Resistive load)
Operating Temp. & Humidity	0-40°C (0-104°F), below 90% RH (non-condensing)
Power Requirement	100 VAC, 50/60Hz, Power consumption: Max 3.5VA, Power cable: 3m accessory (standard) Option: (DC 24V, Power consumption: MAX 2.0 W<Special version>)
Dimensions	Approx. 95(W) x 135(H) x 35(D)mm
Weight	Approx. 420g (Approx. 220g in case of DC 24V version)
Mounting	Wall mounting type (by using accessory mounting plate or mount at one switch box) Cable inlet: Up, down and left/right, or rear side

Symptoms of O₂ Deficiency

O ₂	Symptoms
23.5%	OSHA limit for increased levels of oxygen
20.9%	Oxygen content in normal air
19.5% - 12%	Increased pulse and respiration
12% - 10%	Disturbed respiration, fatigue, faulty judgment
10% - 6%	Nausea, vomiting, inability to move, loss of consciousness and death
6% - 0%	Convulsions, cardiac arrest and death

Optional Accessories

Remote sensor

- Cable length: 3m, 5m, 10m, 20m (specify when ordering)
- Cable used: EM-MEES (0.5sq), 2-core



* Specifications subject to change without notice.



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