

# RIKEN

# INDOOR OXYGEN MONITOR

## MODEL OX-500



Built-in sensor

### 3 color LED Digital Display



Normal



Warning



Alarm

### Applications

- Prevent oxygen deficient accidents
- Control oxygen levels
- Laboratories
- Warehouses
- Tunnels
- Clean room
- Basements

### Features

- Compact, wall mounting design
- Highly visible 3 color LED digital display
- Remote sensor capability
- Power cable can enter from any direction
- Stores alarm summary data.  
(10 alarm occurrence, time and alarm concentration)



95QR 007  
Object place of business  
Tokyo factory, Ohgawa factory



97ER 005  
Object place of business  
Tokyo factory



# RIKEN KEIKI

## Specifications

Model Name	OX-500
Detection Principle	Galvanic cell
Sampling Method	Diffusion
Enclosure	Wall mounting (Uses mounting plate or mount in a switch box)
Cable Entry	All directions and the rear
Measuring Range	0~25.0 vol% (0.1 vol% digit)
Display	3 digits , 3 color LED (Green, Orange, Red) , Normal : Green
Types of Alarms	Gas alarm : 2 decrease alarms, latching mode (Non-latching with reset switch) Trouble alarm : Self reset
Preset Alarm Levels	1st : 19.0 vol% , 2nd : 18.0 vol%
Alarm Relays	Normally-open contact for both AL1/AL2, rated 125VAC to 1A (Resistive load)
Display of Alarm	Gas alarm 1 : Flashing orange LED with gas display, flashing AL1 orange LED, intermittent buzzer  Gas alarm 2 : Flashing red LED with gas display, flashing AL2 red LED, continuous buzzer sound  Trouble alarm : Flashing of red error message [E-**] (Displays error number at**), short intermittent buzzer sound
Outputs	4~20mADC
Operating Temp. & Humidity	0~40°C (0~104°F), below 95%RH, (non-condensing)
Power requirement	100VAC, 50/60Hz, Max 3.5VA, supplied with power cable(3m) or 24VDC, Max 2.0W
Dimensions	Approx. 95(W)×135(H)×35(D)mm
Weight	Approx. 420g (220g for 24VDC operation)

※Specifications subject to change without notice.

## Optional Accessories







Remote sensor

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



Remote sensor

## Oxygen Deficiency and Its Reaction to Human Being

O2	Symptoms	O2	Symptoms
21%	 Normal Oxygen in air	14% ↓ 9%	 Fading consciousness, Headache, Nausea, Pale complexion (cyanosis), Slow reaction.
18%	 Safety limit, Needs ventilation	10% ↓ 6%	 Loses consciousness, Cramps of the whole body.
16% ↓ 12%	 Strained breathing, High pulse, Decrease of mental concentration Headache, Ears ring, Nausea.	Below 6%	 No consciousness. Lethargy, Stop breathing, Heart rate stops, Die within 6 min.



### RIKEN KEIKI CO., LTD.

2-7-6 Azusawa, Itabashi-ku, Tokyo 174-8744, Japan

Phone : TOKYO (03)3966-1113

Telefax : TOKYO (03)3558-9110 (GIII)

E-mail : intdept@rikenkeiki.co.jp

Web site : <http://www.rikenkeiki.co.jp>

★ Distributed by: